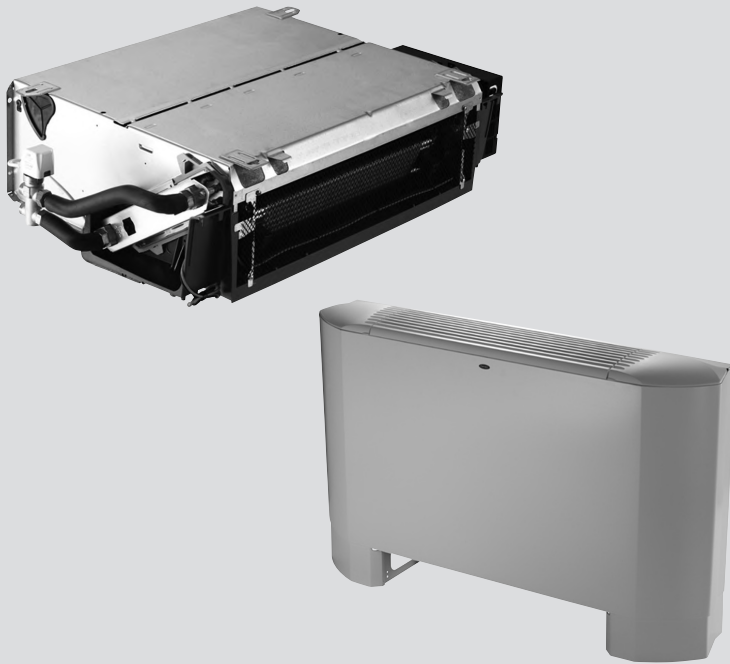




United Technologies

PRODUCT SELECTION DATA



- Extremely quiet operation
- Low Energy Consumption
- Simplified installation & large options choice
 - Self regulated PTC electrical heater
 - Discreet & elegant consoler

Room Fan Coils

42N



CARRIER participates in the ECP programme for LCP/HP
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IDROFAN.

42N

Total cooling capacity 0.75–6.02 kW

Total heating capacity 0.60–9.26 kW

The new generation 42N_S and 42N_E product ranges combine aesthetic and attractive design with versatility to satisfy any application need, from large office buildings or hotels to shops and residential applications.

This new product series is characterised by concentrated, innovative technology, unusual for a fan coil. The result is a product that is easy to select and install.

The 42N_S is available with a new-generation three- or five-speed AC motor. The 42N_E is available with a variable-speed low energy consumption EC motor.

The range now includes eleven sizes, with air flows from 35 to 422 l/s (126 to 1520 m³/h). The Idrofan offers an ultra-low-noise option for applications where a low noise level is the most important selection parameter.

The new Idrofan is available with two types of fans, a tangential fan for the smallest sizes and a centrifugal fan for all other sizes.

These versions are available in any combination, from cabinet models for floor, wall or under-ceiling installation to models without cabinet for horizontal or vertical furred-in installation.

Features

- With its sleek styling the 42N encased units blend in perfectly with any room décor. The pre-painted steel panels are protected by a high-quality paint finish.
- The flexibility of the plastic-moulded unit drain pan allows the same unit to be installed in a vertical or horizontal position without the need for a dedicated accessory.
- Integrated, factory-mounted cooling and heating coil for four-pipe applications.
- The 42N units were designed for extremely quiet operation with sound levels that set new comfort standards for buildings. The new fan/motor assembly design ensures whisper-quiet operation (10 dB(A) less compared to the previous version). Particular attention has been given to the low fan speed, typically used at night.
- Motors
The Idrofan is available with a multi-speed motor, extended to five fixed speeds to improve its flexibility and cover all customer applications. The Idrofan is now available with ultra-low noise levels to make it one of the quietest fan coils on the market.

The Idrofan is also available with variable-speed LEC (= low energy consumption) motors, that meet the new building energy performance objectives.

- The LEC solution enhances unit performances offering:
- Reduced energy costs - the LEC motor reduces fan coil consumption by 50 to 75%. The LEC option meets the new building energy management regulations.
 - Improved comfort - the LEC motor with variable fan speed reduces noise levels compared to multi-speed fans, offering ultra-quiet air flow down to very low operating levels. With the NTC controller, a maximum fan speed can be set to allow better sound level management.
 - Maximum flexibility - auto-adaptive air flow rate

adjustment from 0 to 100% ensures perfect cooling and heating conditions in the room.

- Extended life time - LEC motors with brushless technology use a lower fan motor temperature for extended operating life.
- Filters
The standard filter for the Idrofan series has a pleated filtration surface, resulting in a 87% larger surface than a conventional filter, with the following additional advantages:
 - Lower air flow per unit area, resulting in lower pressure drop and reduced noise level.
 - The average interval between filter cleaning is three times longer, compared to standard filters.
 - The filter material is polypropylene and the grade is G1.

In the Idrofan series the filter is located at the bottom of the unit. Cleaning is easy: after removing a safety screw, the filter sides can be manually unclipped. The filter frame can be pulled down and the filter can then be removed easily. Re-assembly is just as easy, reversing the sequence. The filter and filter position within the unit are designed to prevent air bypass around the filter, to ensure that the air is always filtered and clean.

- Ease of installation
The Idrofan series fan coils are extremely easy to install. For horizontal under-ceiling installations with cabinet or ducted ceiling-void applications the installer's task is significantly simplified.

Robust hooks allow easy and fast attachment of the unit. No calculations are needed to determine the correct slope for proper condensate water drainage.

For concealed ducted applications, the outlet flange can be mounted on the unit before installing them together as a single piece in the false ceiling.

Even the installation of floor-mounted units is simple, the new hook dimensions and positions help fixing the units firmly against the wall.

All these design aspects minimise installation time and improve the long-term reliability, avoiding small mistakes that could impair the reliability of installed units over time.

Carrier controller range

The Idrofan fan coil is available with the complete range of Carrier controllers. Several tests ensure easy installation. The number of available controllers offers more and improved features, and easy selection according to application needs.

Electronic thermostat A-B-C-D types

- Carrier electronic thermostat range is available for all Carrier hydronic terminals ranges:
 - Type A: Two-pipe application with AC motors
 - Type B: Four-pipe or two-pipe applications with electric heaters with AC motors
 - Type C: Two-pipe application with EC motors
 - Type D: Four-pipe or two-pipe applications with electric heaters with EC motors
- The thermostat for FCU with EC motors option is managing 3 configurable discrete speeds through 0-10 V signal.

- The thermostats have an elegant square shape with a coaxial knob to set room temperature and 3 buttons to set up fan speed, cooling or heating mode, and On/Off, as desired by the customer.
- Wall-mounted controls are easily and discreetly integrated in any room environment.
- The electronic thermostats set range is from 10 °C to 30 °C with the possibility to limit the temperature in public buildings where low energy consumption is a key requirement via a dip-switch inside the control (Cooling range 23 °C/30 °C, heating range 10 °C/21 °C).

The following Features are available as setting:

- **Auto fan:** The fan speed is automatically set by the control; when the room temperature is far from the set point, high fan speed is selected. As the room temperature approaches the desired value, the fan speed decreases until the minimum speed is reached.
- **Automatic changeover:** Automatic changeover from the cooling to heating mode, based on the water temperature, ensures that the ideal room temperature is maintained.
- **Remote changeover:** Automatic changeover from cooling to heating mode, based on the remote signal from the monitoring system.
- **Warm and cold draught protection:** This feature stops the fan when the set point condition is satisfied and the water temperature is too low or too high, ensuring that air that is too cold or too warm does not cause discomfort to the room occupants.
- **Air sensor:** This is unit-mounted – if the control is wall mounted, a second air sensor located in the control can be used for fine tuning of the desired room temperature.
- **Frost protection:** This function ensures that the room temperature is kept above a minimum level. If the unit is in off mode, and the room temperature drops below 7 °C, frost protection is enabled and the unit operates in heating mode until the temperature rises above 9 °C. At this point the unit is switched off again.
- **Booster heating management optimization (available with electric heater option):** If the water temperature is below 30 °C the system will work in the heat demand mode and the electric heater will be the only available heating source. If the water temperature is above 35 °C the system will work in the booster heating mode, energising the water valve and electric heater together. The booster heating function will be deactivated if the water temperature is above 45 °C (the electric heater will be de-energised).
- **Energy saving:** This feature allows saving energy when the room is unoccupied, without the need to switch off the unit. When the energy-saving button is pressed, the actual set point will be modified as follows, without changing the position of the set point selection knob: - Cooling mode: Set point raised by 4 °C - Heating mode: Set point lowered by 4 °C The unit will resume normal operation, once the energy saving button is pressed again.
- **LED intensity:** For offices or light commercial applications, 10 seconds after the latest use of the user interface, all the necessary LEDs are lighted on at a reduced intensity. As soon as the user touches again the user interface, LED have to come back to normal light. In order not to disturb hotels customers, the thermostat can be configured from Night Mode to Dark Mode: 10 seconds after the latest use of user interface, all the LEDs are switched off. As soon as the user touches again the user

interface, LEDs of the current condition are switched on with normal light.

- **Air sampling:** If no fan request is made and the Air sampling jumper is in ON position, the control performs the Air sampling function: the air is moved in the room, thermal stratification is reduced, ensuring a more reliable ambient temperature reading.
- **Continuous fan:** If there is no fan request and the Continuous fan jumper is in ON position, the control selects fan speed Low, Medium or High according to the fan-speed selection, regardless of thermal station conditions. If the fan is controlled in Auto fan mode and the control is not in the demand phase, the fan is permanently activated at Low speed.
- **External contact:** A high voltage input signal for external contact is present. If the external contact is activated, device behaviour depends on its configuration on site: - Presence detection (empty room with hotel door card), Energy saving mode is activated, internal temperature is raised by 4 °C in cooling mode and reduced by 4 °C in heating mode. - Window Contact: During OFF mode (window open), all outputs are disconnected (fan, valves, etc.) and only the frost protection.
- **Master/Slave control:** Thermostat type A_AC and B_AC: the Control Board for grouping accessory (42N9006) is allowing fan speed relay only (water valves have to be wired/relayed separately) up to 300 units with control on Air temperature (no water valve), or 10 units 2 pipe with water control, or 5 units 4 pipe with water control - Thermostat type C_EC and D_EC: The Thermostat EC motor version can control up to 10 LEC units by wiring in parallel the analogue 0-10 two-wires output signal (water valves have to be wired/relayed separately).

HDB (Hydronic Dual Board)

- This electronic thermostat allows master/slave operation. The master unit can manage up to 15 slave units. This controller can be used with a wall-mounted user interface or a remote end user control.

NTC controller

- This is a communicating PID controller, combining energy-saving algorithms and full control function solutions, compatible with the Aquasmart Evolution system package. The NTC controller can manage the EC motor option, and combines energy savings with optimised comfort.

Valve options

- Valve body: both the two-way or four-way (three-way with integrated bypass) valve options are factory-fitted and tested. The chilled-water valves are fully insulated within a moulded insulating shell, preventing condensation on the valve body, for both vertical and horizontal applications. This new shell reduces the complexity of the offer and prevents water leakage risk. Valves can be factory-fitted on the left or right-hand side.
- Valve actuators: a wide choice of actuators is available with two or four-way valve bodies to offer the right solution for any controller type and customer requirement, from on/off to proportional types, with either 230 V or 24 V power supply:
 - On/off 230 V actuator
 - On/off 24 V actuator
 - Floating 3-point 230 V actuator
 - Floating 3-point 24 V actuator
 - Modulating 0-10 V/24 V actuator

- When combined with I.E.C motors and the NTC controller, floating three-point 230-V actuators are recommended to increase energy savings and enhance comfort.

Main drain pan and insulation

- The main drain pan incorporates innovative technological solutions:
 - Horizontal installation: the units can be installed perfectly horizontal - the drain pan structure takes care of the slope, so that the installer avoids complex and time-consuming computations to correctly install the units.
 - Left or right-hand condensate connection is standard - the installer can easily choose unit connection on one side or the other, just by fixing the plastic cap on the opposite side.
 - Insulation: the drain pan design allows much tighter contact between drain pan and insulation, reinforced by metal clips to keep the insulation in place. This improves reliability and prevents water dripping from the unit.
 - The drain pan for the whole range is made of moulded plastic, i.e. more robust, easier and safer to service.

PTC electric heater

- Electric heater options have been enhanced with the latest PTC (positive temperature coefficient) technology. Their resistance increases as their temperature increases, so the capacity goes down accordingly. This electric heater feature allows fast heating at start-up, the heating capacity is adjusted automatically, whilst ensuring safe and reliable operation. This option is available in low and high capacity for each Idrofan size.

Feet mounting

- The installation of feet has been greatly simplified and both sides are painted. Just one clip is needed to fix the feet to the units. For this reason and for better reliability during transport, the feet are sold as options - supplied with the unit from the factory (ordering codes Z or P in the 4th digit). They are included with the unit, but not factory-mounted.

Reversibility

- If the unit received is not as required, the coil and the control box can be switched on site from left to right or vice versa (except units equipped with valves - since their installation is optimised for each side, the valve package must be replaced by a new valve kit).

Simplified accessories

- The number of accessories has been reduced to simplify selection and reduce the inventory level. The accessories offered remain unchanged to satisfy any application needs, but the number of codes has been greatly reduced.
- Aesthetics
 - Supporting feet
 - Supporting feet and cover panel
 - Return air grille for cabinet unit
 - Rear closing panel
 - Cabinet on concealed units,
 - Discharge air sleeve (concealed units only)
 - Supporting brackets (20 + 20 pieces left and right)
- Controllers and user interfaces
 - A/B/C/D-type thermostat
 - Kit for 33TA0001/33TB0001 installation on 42NM/Z
 - Cold draught prevention kit - all two-pipe sizes
 - Automatic changeover switch - all units
 - Air sensor with 15 m cable
 - Water sensor kit with 15 m cable
 - Infrared remote controller (IR2)
 - Infrared remote receiver kit (IRR)
 - ZUI1 interface 1 - Wago
 - ZUI2 interface 2 - RJ11
 - SUI1 (with fan speed selection)
 - SUI2 (without fan speed selection)
- The units comply with international standards EN60335-1 and EN60335-2-40 and are certified according to the applicable Eurovent standards for the non-ducted fan coil programme.

Physical and electrical data, two-pipe coil

42N_S, 2-pipe coil		15					20					26		
Fan speed		5	4	3	2	1	5	4	3	2	1	3	2	1
Fan type		One, tangential					One, centrifugal					One, centrifugal		
Air flow	l/s	35	56	69	84	97	59	80	92	107	128	93	149	196
	m³/h	125	200	250	300	350	215	285	330	385	460	335	536	706
Cooling mode*														
Total cooling capacity	kW	0.83	1.07	1.19	1.34	1.49	1.39	1.81	2.08	2.34	2.54	2.10	3.00	3.60
Sensible cooling capacity	kW	0.70	0.93	1.03	1.19	1.31	1.03	1.42	1.60	1.85	2.03	1.65	2.35	2.90
Water flow rate	l/s	0.04	0.05	0.06	0.06	0.07	0.07	0.09	0.10	0.11	0.12	0.10	0.14	0.17
	l/h	143	184	205	230	256	239	311	358	402	437	361	516	619
Water pressure drop	kPa	6.2	9.6	11.5	14.1	16.9	2.8	4.2	5.3	6.4	7.3	5.4	9.5	12.7
Heating mode**														
Heating capacity	kW	1.14	1.42	1.66	1.89	2.09	1.70	2.10	2.54	2.87	3.18	2.56	3.68	4.38
Water pressure drop	kPa	4.9	7.8	9.4	11.6	14.0	2.2	3.4	4.3	5.2	6.0	4.4	7.8	10.6
Water content	l	0.6	0.6	0.6	0.6	0.6	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Sound levels														
Sound power level	dB(A)	28	37	42	47	51	29	38	42	46	50	44	54	61
Sound pressure level***	dB(A)	19	28	33	38	42	20	29	33	37	41	35	45	52
NR value		15	24	28	34	39	14	24	29	33	36	31	40	48
Electrical data														
Power input	W	16	17	19	23	30	29	30	31	34	36	45	55	65
Current drawn	A	0.08	0.08	0.09	0.11	0.13	0.13	0.13	0.14	0.15	0.16	0.21	0.25	0.30
Electric heater														
High capacity	W	800					1000					1000		
Current drawn	A	3.48					4.35					4.35		
Low capacity	W	500					500					500		
Current drawn	A	2.18					2.18					2.18		
Eurovent data														
FCEER	kW/kW	55					55					50		
FCEER energy class		D					D					E		
FCCOP	kW/kW	76					68					61		
FCCOP energy class		D					E					E		
Connection diameter	in	3/4 gas					3/4 gas					3/4 gas		

42N_S, 2-pipe coil		30					42			45					65†		
Fan speed		5	4	3	2	1	3	2	1	5	4	3	2	1	3	2	1
Fan type		Two, centrifugal					Two, centrifugal			Two, centrifugal					Two, centrifugal		
Air flow	l/s	97	126	153	182	207	147	222	268	146	185	224	277	333	237	331	422
	m³/h	350	455	550	655	745	531	798	965	525	665	805	995	1195	853	1191	1519
Cooling mode*																	
Total cooling capacity	kW	2.07	2.54	3.01	3.46	3.70	3.00	4.00	4.50	2.60	3.37	3.98	4.74	5.45	3.90	5.45	6.35
Sensible cooling capacity	kW	1.40	1.96	2.35	2.84	3.10	2.35	3.30	3.85	2.12	2.78	3.30	3.98	4.55	3.20	4.6	5.10
Water flow rate	l/s	0.10	0.12	0.14	0.17	0.18	0.14	0.19	0.22	0.12	0.16	0.19	0.23	0.26	0.19	0.26	0.30
	l/h	356	437	518	595	636	516	688	774	447	580	685	815	937	671	937	1092
Water pressure drop	kPa	6.0	8.6	11.5	14.6	16.4	11.4	18.8	23.0	3.2	5.0	6.7	9.0	11.5	6.4	11.5	15.0
Heating mode**																	
Heating capacity	kW	2.86	3.54	4.18	4.80	5.29	4.05	5.55	6.40	4.00	5.05	5.90	6.90	8.08	6.10	8.00	9.50
Water pressure drop	kPa	4.8	6.9	9.2	11.7	13.1	9.2	15.0	18.4	2.7	4.2	5.5	7.5	9.5	5.4	9.5	12.3
Water content	l	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Sound levels																	
Sound power level	dB(A)	36	42	47	51	54	47	57	62	41	47	53	57	62	54	62	68
Sound pressure level***	dB(A)	27	33	38	42	45	38	48	53	32	38	44	48	53	45	53	59
NR value		22	29	33	37	40	31	44	49	28	34	40	43	48	40	49	54
Electrical data																	
Power input	W	42	44	46	50	57	45	75	100	69	77	83	92	128	90	125	165
Current drawn	A	0.19	0.20	0.21	0.23	0.25	0.21	0.35	0.45	0.31	0.34	0.37	0.41	0.55	0.41	0.55	0.72
Electric heater																	
High capacity	W	2000					2000			2000					2000		
Current drawn	A	8.70					8.70			8.70					8.70		
Low capacity	W	1000					1000			1000					1000		
Current drawn	A	4.35					4.35			4.35					4.35		
Eurovent data																	
FCEER	kW/kW	55					59			41					43		
FCEER energy class		D					D			E					E		
FCCOP	kW/kW	77					81			63					66		
FCCOP energy class		D					D			E					E		
Connection diameter	in	3/4 gas					3/4 gas			3/4 gas					3/4 gas		

* Eurovent conditions: Entering air temperature = 27°C db/19°C wb – entering/leaving water temperature = 7°C/12°C, high fan speed.

** Eurovent conditions: Entering air temperature = 20°C, entering water temperature = 50°C, same water flow rate as in cooling mode.

*** Based on a hypothetical acoustic attenuation for the room and the air distribution system of -9 dB(A).

† This unit complies with all applicable standards for EC marking (for further details see Declaration of Conformity). Except the unit size 42N_S65 which is not CE labeled due to fan efficiency regulation 327/2011 but is fully compliant with Machinery (2006/42/EC) and Electromagnetic Compatibility (2004/108/EC) directives.

Physical and electrical data, four-pipe coil

42N_S, 4-pipe coil		15					20					26		
Fan speed		5	4	3	2	1	5	4	3	2	1	3	2	1
Fan type		One, tangential					One, centrifugal					One, centrifugal		
Air flow	l/s	35	56	69	84	97	59	80	92	107	128	93	149	196
	m ³ /h	125	200	250	300	350	215	285	330	385	460	335	536	706
Cooling mode*														
Total cooling capacity	kW	0.75	1.05	1.16	1.36	1.47	1.19	1.45	1.66	1.91	2.06	1.70	2.32	2.74
Sensible cooling capacity	kW	0.66	0.89	1.01	1.19	1.25	1.00	1.23	1.41	1.60	1.72	1.40	1.94	2.38
Water flow rate	l/s	0.04	0.05	0.06	0.06	0.07	0.06	0.07	0.08	0.09	0.10	0.08	0.11	0.13
	l/h	129	181	200	234	253	205	249	286	329	354	292	399	471
Water pressure drop	kPa	5.1	9.1	10.8	14.2	16.3	1.8	2.5	3.1	4.0	4.5	3.2	5.5	7.3
Water content	l	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Heating mode**														
Heating capacity	kW	0.60	0.99	1.14	1.35	1.51	1.83	2.21	2.46	2.68	2.87	2.50	3.16	3.85
Water flow rate	l/s	0.01	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.06	0.08	0.09
	l/h	52	85	98	116	130	157	190	212	230	247	215	272	331
Water pressure drop	kPa	0.6	1.4	1.8	2.3	2.8	4.0	5.5	6.6	7.7	8.7	6.8	10.3	14.5
Water content	l	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Sound levels														
Sound power level	dB(A)	27	39	43	48	51	29	38	42	46	50	44	54	61
Sound pressure level***	dB(A)	18	30	34	39	42	20	29	33	37	41	35	45	52
NR value		15	24	28	34	39	14	24	29	33	36	31	40	48
Electrical data														
Power input	W	16	17	19	23	30	29	30	31	34	36	45	55	65
Current input	A	0.08	0.08	0.09	0.11	0.13	0.13	0.13	0.14	0.15	0.16	0.21	0.25	0.30
Eurovent data														
FCEER	kW/kW	52					46					40		
FCEER energy class		E					E					E		
FCCOP	kW/kW	46					69					56		
FCCOP energy class		F					E					E		
Connection diameter														
Cooling	in	3/4 gas					3/4 gas					3/4 gas		
Heating	in	1/2 gas					1/2 gas					1/2 gas		

42N_S, 4-pipe coil		30					42			45					65†			
Fan speed		5	4	3	2	1	3	2	1	5	4	3	2	1	3	2	1	
Fan type		Two, centrifugal					Two, centrifugal			Two, centrifugal					Two, centrifugal			
Air flow	l/s	97	126	153	182	207	147	222	268	146	185	224	277	333	237	331	422	
	m ³ /h	350	455	550	655	745	531	798	965	525	665	805	995	1195	853	1191	1519	
Cooling mode*																		
Total cooling capacity	kW	2.02	2.45	2.75	3.02	3.33	2.65	3.36	3.78	2.75	3.30	3.90	4.36	5.00	4.04	4.94	5.73	
Sensible cooling capacity	kW	1.57	1.95	2.22	2.47	2.73	2.13	2.83	3.22	2.15	2.60	3.15	3.55	4.12	3.25	4.08	4.85	
Water flow rate	l/s	0.10	0.12	0.13	0.14	0.16	0.13	0.16	0.18	0.13	0.16	0.19	0.21	0.24	0.19	0.24	0.27	
	l/h	347	421	473	519	573	456	578	650	473	568	671	750	860	695	850	986	
Water pressure drop	kPa	5.1	7.2	8.8	10.3	12.2	8.2	12.4	15.2	9.9	13.6	18.2	22.1	28.1	19.4	27.5	35.6	
Water content	l	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
Heating mode**																		
Heating capacity	kW	2.73	3.14	3.51	3.82	4.27	3.36	4.39	5.00	3.90	4.50	5.00	5.60	6.10	5.12	6.05	7.1	
Water flow rate	l/s	0.07	0.08	0.08	0.09	0.10	0.08	0.10	0.12	0.09	0.11	0.12	0.13	0.15	0.12	0.14	0.17	
	l/h	235	270	302	329	367	289	378	430	335	387	430	482	525	440	520	611	
Water pressure drop	kPa	10.0	12.7	15.4	17.9	21.7	14.3	22.7	28.5	20.5	26.4	31.8	38.9	45.2	33.2	44.6	59.2	
Water content	l	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Sound levels																		
Sound power level	dB(A)	36	42	47	51	54	47	57	62	41	47	53	57	62	54	62	68	
Sound pressure level***	dB(A)	27	33	38	42	45	38	48	53	32	38	44	48	53	45	53	59	
NR value		22	29	33	37	40	31	44	49	28	34	40	43	48	40	49	54	
Electrical data																		
Power input	W	42	44	46	50	57	45	75	100	69	77	83	92	128	90	125	165	
Current input	A	0.19	0.20	0.21	0.23	0.25	0.21	0.35	0.45	0.31	0.34	0.37	0.41	0.55	0.41	0.55	0.72	
Eurovent data																		
FCEER	kW/kW	52					51			42					42			
FCEER energy class		E					E			E					E			
FCCOP	kW/kW	69					66			57					53			
FCCOP energy class		E					E			E					E			
Connection diameter																		
Cooling	in	3/4 gas					3/4 gas			3/4 gas					3/4 gas			
Heating	in	1/2 gas					1/2 gas			1/2 gas					1/2 gas			

* Eurovent conditions: Entering air temperature = 27°C db/19°C wb – entering/leaving water temperature = 7°C/12°C, high fan speed.

** Eurovent conditions: Entering air temperature = 20°C, entering water temperature = 70°C, high fan speed, water temperature difference = 10 K.

*** Based on a hypothetical acoustic attenuation for the room and the air distribution system of -9 dB(A).

† This unit complies with all applicable standards for EC marking (for further details see Declaration of Conformity). Except the unit size 42N_S65 which is not CE labeled due to fan efficiency regulation 327/2011 but is fully compliant with Machinery (2006/42/EC) and Electromagnetic Compatibility (2004/108/EC) directives.

Physical and electrical data, units with LEC motors, two and four-pipe coils

42N_E, 2-pipe coil		19					29					39				
Fan speed	%	20	40	60	80	100	20	40	60	80	100	20	40	60	80	100
Fan type		One, tangential					One, centrifugal					Two, centrifugal				
Air flow	l/s	35	56	69	84	97	59	80	92	107	128	97	126	153	182	207
	m ³ /h	125	200	250	300	350	215	285	330	385	460	350	455	550	655	745
Cooling mode*																
Total cooling capacity	kW	0.83	1.07	1.19	1.34	1.49	1.39	1.81	2.08	2.34	2.54	2.07	2.54	3.01	3.46	3.70
Sensible cooling capacity	kW	0.70	0.93	1.03	1.19	1.31	1.03	1.42	1.60	1.85	2.03	1.40	1.96	2.35	2.84	3.10
Water flow rate	l/s	0.04	0.05	0.06	0.06	0.07	0.07	0.09	0.10	0.11	0.12	0.10	0.12	0.14	0.17	0.18
	l/h	143	184	205	230	256	239	311	358	402	437	356	437	518	595	636
Water pressure drop	kPa	6.2	9.6	11.5	14.1	16.9	2.8	4.2	5.3	6.4	7.3	6.0	8.6	11.5	14.6	16.4
Heating mode**																
Heating capacity	kW	1.14	1.42	1.66	1.89	2.09	1.70	2.10	2.54	2.87	3.18	2.86	3.54	4.18	4.80	5.29
Water pressure drop	kPa	4.9	7.8	9.4	11.6	14.0	2.2	3.4	4.3	5.2	6.0	4.8	6.9	9.2	11.7	13.1
Water content	l	0.6					1.4					1.8				
Sound levels																
Sound power level	dB(A)	28	37	42	47	51	29	38	42	46	50	36	42	47	51	54
Sound pressure level***	dB(A)	19	28	33	38	42	20	29	33	37	41	27	33	38	42	45
NR value		15	24	28	34	39	14	24	29	33	36	22	29	33	37	40
Electrical data																
Power input	W	3	4	7	10	14	3	5	7	10	15	5	9	15	23	35
Current drawn	A	0.08	0.09	0.10	0.11	0.15	0.09	0.09	0.11	0.13	0.16	0.10	0.12	0.16	0.21	0.29
Electric heater																
High capacity	W	800					1000					2000				
Current drawn	A	3.48					4.35					8.70				
Low capacity	W	500					500					1000				
Current drawn	A	2.18					2.18					4.35				
Eurovent data																
FCEER	kW/kW	204					345					256				
FCEER energy class		A					A					A				
FCCOP	kW/kW	283					422					356				
FCCOP energy class		A					A					A				
Connection diameter	in	3/4 gas					3/4 gas					3/4 gas				

42N_E, 2-pipe coil		49					69				
Fan speed	%	20	40	60	80	100	20	40	60	80	100
Fan type		Two, centrifugal					Two, centrifugal				
Air flow	l/s	146	185	224	277	333	214	267	310	358	406
	m ³ /h	525	665	805	995	1195	770	960	1115	1290	1460
Cooling mode*											
Total cooling capacity	kW	2.60	3.37	3.98	4.74	5.45	3.57	4.26	4.83	5.44	6.02
Sensible cooling capacity	kW	2.12	2.78	3.30	3.98	4.55	2.97	3.58	4.11	4.62	5.13
Water flow rate	l/s	0.12	0.16	0.19	0.23	0.26	0.17	0.20	0.23	0.26	0.29
	l/h	447	580	685	815	937	615	733	830	935	1031
Water pressure drop	kPa	3.2	5.0	6.7	9.0	11.5	5.5	7.8	9.9	12.6	15.3
Heating mode**											
Heating capacity	kW	4.00	5.05	5.90	6.90	8.08	5.62	6.69	7.53	8.43	9.26
Water pressure drop	kPa	2.7	4.2	5.5	7.5	9.5	4.5	6.4	8.2	10.4	12.7
Water content	l	2.1					2.1				
Sound levels											
Sound power level	dB(A)	41	47	53	57	62	53	57	62	65	68
Sound pressure level***	dB(A)	32	38	44	48	53	44	48	53	56	59
NR value		28	34	40	43	48	40	43	48	51	54
Electrical data											
Power input	W	8	14	25	39	65	22	37	59	90	130
Current drawn	A	0.10	0.15	0.22	0.35	0.52	0.21	0.31	0.46	0.68	0.94
Electric heater											
High capacity	W	2000					2000				
Current drawn	A	8.70					8.7				
Low capacity	W	1000					1000				
Current drawn	A	4.35					4.35				
Eurovent data											
FCEER	kW/kW	198					106				
FCEER energy class		A					C				
FCCOP	kW/kW	299					171				
FCCOP energy class		A					B				
Connection diameter	in	3/4 gas					3/4 gas				

Based on Eurovent conditions:

* Cooling mode (2-pipe and 4-pipe coil): entering air temperature 27°C db/19°C wb, entering/leaving water temperature 7°C/12°C, high fan speed.

** Heating mode (2-pipe coil): entering air temperature 20°C, entering water temperature 50°C, high fan speed, same water flow rate as in cooling mode.

*** Heating mode (4-pipe coil): entering air temperature 20°C, entering water temperature 70°C, high fan speed, water temperature difference = 10 K.

**** Based on a hypothetical acoustic attenuation for the room and the air distribution system of -9 dB(A).

42N_E, 4-pipe coil		19					29					39				
Fan speed	%	20	40	60	80	100	20	40	60	80	100	20	40	60	80	100
Fan type		One, tangential					One, centrifugal					Two, centrifugal				
Air flow	l/s	35	56	69	84	97	59	80	92	107	128	97	126	153	182	207
	m³/h	125	200	250	300	350	215	285	330	385	460	350	455	550	655	745
Cooling mode*																
Total cooling capacity	kW	0.75	1.05	1.16	1.36	1.47	1.19	1.45	1.66	1.91	2.06	2.02	2.45	2.75	3.02	3.33
Sensible cooling capacity	kW	0.66	0.89	1.01	1.19	1.25	1.00	1.23	1.41	1.60	1.72	1.57	1.95	2.22	2.47	2.73
Water flow rate	l/s	0.04	0.05	0.06	0.06	0.07	0.06	0.07	0.08	0.09	0.10	0.10	0.12	0.13	0.14	0.16
	l/h	129	181	200	234	253	205	249	286	329	354	347	421	473	519	573
Water pressure drop	kPa	5.1	9.1	10.8	14.2	16.3	1.8	2.5	3.1	4.0	4.5	5.1	7.2	8.8	10.3	12.2
Water content	l	0.6					1.1					1.5				
Heating mode**																
Heating capacity	kW	0.60	0.99	1.14	1.35	1.51	1.83	2.21	2.46	2.68	2.87	2.73	3.14	3.51	3.82	4.27
Water flow rate	l/s	0.01	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.10
	l/h	52	85	98	116	130	157	190	212	230	247	235	270	302	329	367
Water pressure drop	kPa	0.6	1.4	1.8	2.3	2.8	3.9	5.5	6.6	7.7	8.7	10.0	12.7	15.4	17.9	21.7
Water content	l	0.2					0.3					0.4				
Sound levels																
Sound power level	dB(A)	28	37	42	47	51	29	38	42	46	50	36	42	47	51	54
Sound pressure level***	dB(A)	19	28	33	38	42	20	29	33	37	41	27	33	38	42	45
NR value		15	24	28	34	39	14	24	29	33	36	22	29	33	37	40
Electrical data																
Power input	W	3	4	7	10	14	3	5	7	10	15	5	9	15	23	35
Current drawn	A	0.08	0.09	0.1	0.11	0.15	0.09	0.09	0.11	0.13	0.16	0.1	0.12	0.16	0.21	0.29
Eurovent data																
FCEER	kW/kW	191					286					243				
FCEER energy class		A					A					A				
FCCOP	kW/kW	170					431					320				
FCCOP energy class		B					A					A				
Connection diameter																
Cooling	in	3/4 gas					3/4 gas					3/4 gas				
Heating	in	1/2 gas					1/2 gas					1/2 gas				

42N_E, 4-pipe coil		49					69				
Fan speed	%	20	40	60	80	100	20	40	60	80	100
Fan type		Two, centrifugal					Two, centrifugal				
Air flow	l/s	146	185	224	277	333	214	267	310	358	406
	m³/h	525	665	805	995	1195	770	960	1115	1290	1460
Cooling mode*											
Total cooling capacity	kW	2.75	3.30	3.90	4.36	5.00	3.81	4.36	4.74	5.14	5.48
Sensible cooling capacity	kW	2.15	2.60	3.15	3.55	4.12	3.03	3.54	3.91	4.30	4.65
Water flow rate	l/s	0.13	0.16	0.19	0.21	0.24	0.18	0.21	0.23	0.25	0.27
	l/h	473	568	671	750	860	646	745	819	900	970
Water pressure drop	kPa	9.9	13.7	18.2	22.1	28.1	18.4	24.5	29.6	35.6	41.4
Water content	l	1.8					1.8				
Heating mode**											
Heating capacity	kW	3.90	4.50	5.00	5.60	6.10	4.71	5.44	5.97	6.49	6.94
Water flow rate	l/s	0.09	0.11	0.12	0.13	0.15	0.12	0.13	0.15	0.16	0.17
	l/h	335	387	430	482	525	413	463	494	574	610
Water pressure drop	kPa	20.5	26.4	31.8	38.9	45.2	32.4	43.2	51.6	60.7	68.8
Water content	l	0.5					0.5				
Sound levels											
Sound power level	dB(A)	41	47	53	57	62	53	57	62	65	68
Sound pressure level***	dB(A)	32	38	44	48	53	44	48	53	56	59
NR value		28	34	40	43	48	40	43	48	51	54
Electrical data											
Power input	W	8	14	25	39	65	22	37	59	90	130
Current drawn	A	0.1	0.15	0.22	0.35	0.52	0.21	0.31	0.46	0.68	0.94
Eurovent data											
FCEER	kW/kW	201					108				
FCEER energy class		A					C				
FCCOP	kW/kW	272					140				
FCCOP energy class		A					C				
Connection diameter											
Cooling	in	3/4 gas					3/4 gas				
Heating	in	1/2 gas					1/2 gas				

Based on Eurovent conditions:

* Cooling mode (2-pipe and 4-pipe coil): entering air temperature 27°C db/19°C wb, entering/leaving water temperature 7°C/12°C, high fan speed.

** Heating mode (2-pipe coil): entering air temperature 20°C, entering water temperature 50°C, high fan speed, same water flow rate as in cooling mode.

Heating mode (4-pipe coil): entering air temperature 20°C, entering water temperature 70°C, high fan speed, water temperature difference = 10 K.

*** Based on a hypothetical acoustic attenuation for the room and the air distribution system of -9 dB(A).

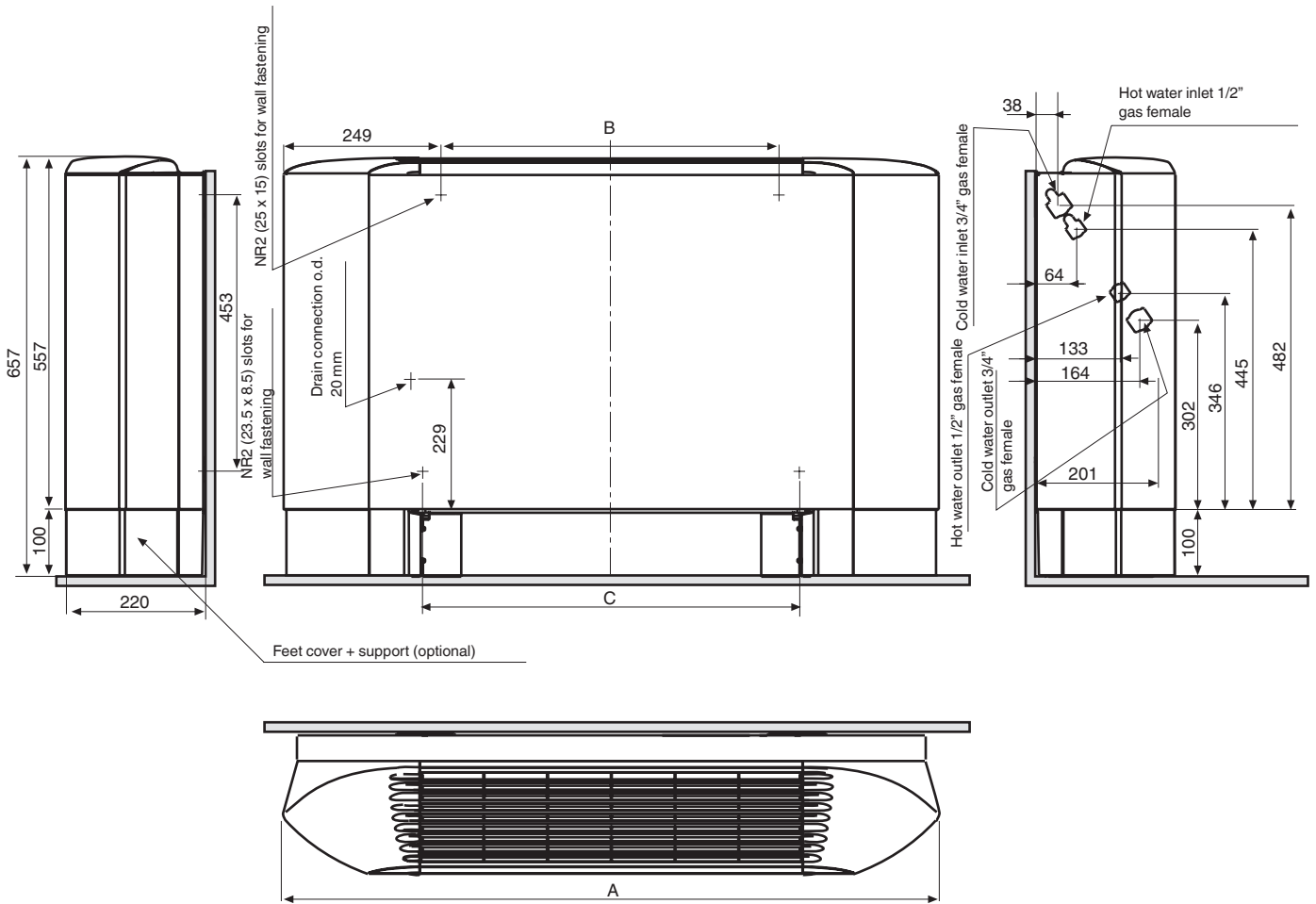
Sound data

Global sound power levels by frequency band for 42N_S units (dB)							
Multi-speed model	Motor voltage	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	dB(A)
42N_S 15	5	35.7	35.1	23.4	14.2	10.7	28.4
	4	35.8	42.7	34.8	29.6	17.6	37.1
	3	40.0	46.2	39.8	36.8	25.2	42.0
	2	44.5	49.2	45.7	42.7	33.3	47.1
	1	48.8	51.9	49.3	47.0	39.1	51.0
42N_S 20	5	42.6	33.4	26.9	14.6	8.4	30.1
	4	45.5	40.1	35.5	27.0	17.3	36.6
	3	49.3	45.0	41.6	35.7	27.3	42.5
	2	50.7	48.3	45.3	40.4	34.3	46.3
	1	51.2	52.0	48.8	44.3	40.7	50.2
42N_S 26	3	41.0	45.0	44.0	38.0	28.0	44.0
	2	52.0	54.0	53.0	48.0	45.0	54.0
	1	58.0	61.0	60.0	56.0	52.0	61.0
42N_S 30	5	42.1	40.8	35.3	26.4	18.3	36.2
	4	45.3	45.7	41.5	34.9	26.4	42.1
	3	50.1	50.0	46.1	41.0	33.8	47.1
	2	52.9	54.1	49.8	45.1	39.6	51.2
	1	55.6	56.4	52.8	47.9	43.6	54.0
42N_S 42	3	46.0	49.0	47.0	41.0	34.0	47.0
	2	56.0	58.0	56.0	52.0	47.0	57.0
	1	61.0	63.0	61.0	57.0	52.0	62.0
42N_S 45	5	40.6	44.3	40.8	34.5	27.0	41.2
	4	46.6	49.6	46.6	41.3	34.9	47.3
	3	53.4	55.3	52.1	47.5	42.8	53.2
	2	56.5	59.6	55.5	51.3	47.4	57.1
	1	62.3	64.4	60.4	56.3	52.7	62.1
42N_S 65	3	53.0	55.0	53.0	48.0	43.0	54.0
	2	62.0	63.0	61.0	56.0	52.0	62.0
	1	69.0	70.0	66.0	62.0	58.0	68.0

Global sound power levels by frequency band for 42N_E units (dB)							
LEC model	Motor voltage	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	dB(A)
42N_E 19	2	35.7	35.1	23.4	14.2	10.7	28.4
	4	35.8	42.7	34.8	29.6	17.6	37.1
	6	40.0	46.2	39.8	36.8	25.2	42.0
	8	44.5	49.2	45.7	42.7	33.3	47.1
	10	48.8	51.9	49.3	47.0	39.1	51.0
42N_E 29	2	42.6	33.4	26.9	14.6	8.4	30.1
	4	45.5	40.1	35.5	27.0	17.3	36.6
	6	49.3	45.0	41.6	35.7	27.3	42.5
	8	50.7	48.3	45.3	40.4	34.3	46.3
	10	51.2	52.0	48.8	44.3	40.7	50.2
42N_E 39	2	42.1	40.8	35.3	26.4	18.3	36.2
	4	45.3	45.7	41.5	34.9	26.4	42.1
	6	50.1	50.0	46.1	41.0	33.8	47.1
	8	52.9	54.1	49.8	45.1	39.6	51.2
	10	55.6	56.4	52.8	47.9	43.6	54.0
42N_E 49	2	40.6	44.3	40.8	34.5	27.0	41.2
	4	46.6	49.6	46.6	41.3	34.9	47.3
	6	53.4	55.3	52.1	47.5	42.8	53.2
	8	56.5	59.6	55.5	51.3	47.4	57.1
	10	62.3	64.4	60.4	56.3	52.7	62.1
42N_E 69	2	53.4	55.3	52.1	47.5	42.8	52.4
	4	56.5	59.6	55.5	51.3	47.4	57.2
	6	62.3	64.4	60.4	56.3	52.7	61.3
	8	65.8	67.3	63.3	59.3	55.5	64.9
	10	69.0	70.0	66.0	62.0	58.0	68.0

Dimensions, vertical units with cabinet

42N_S 15-20-26-30-42-45-65 and 42N_E 19-29-39-49-69

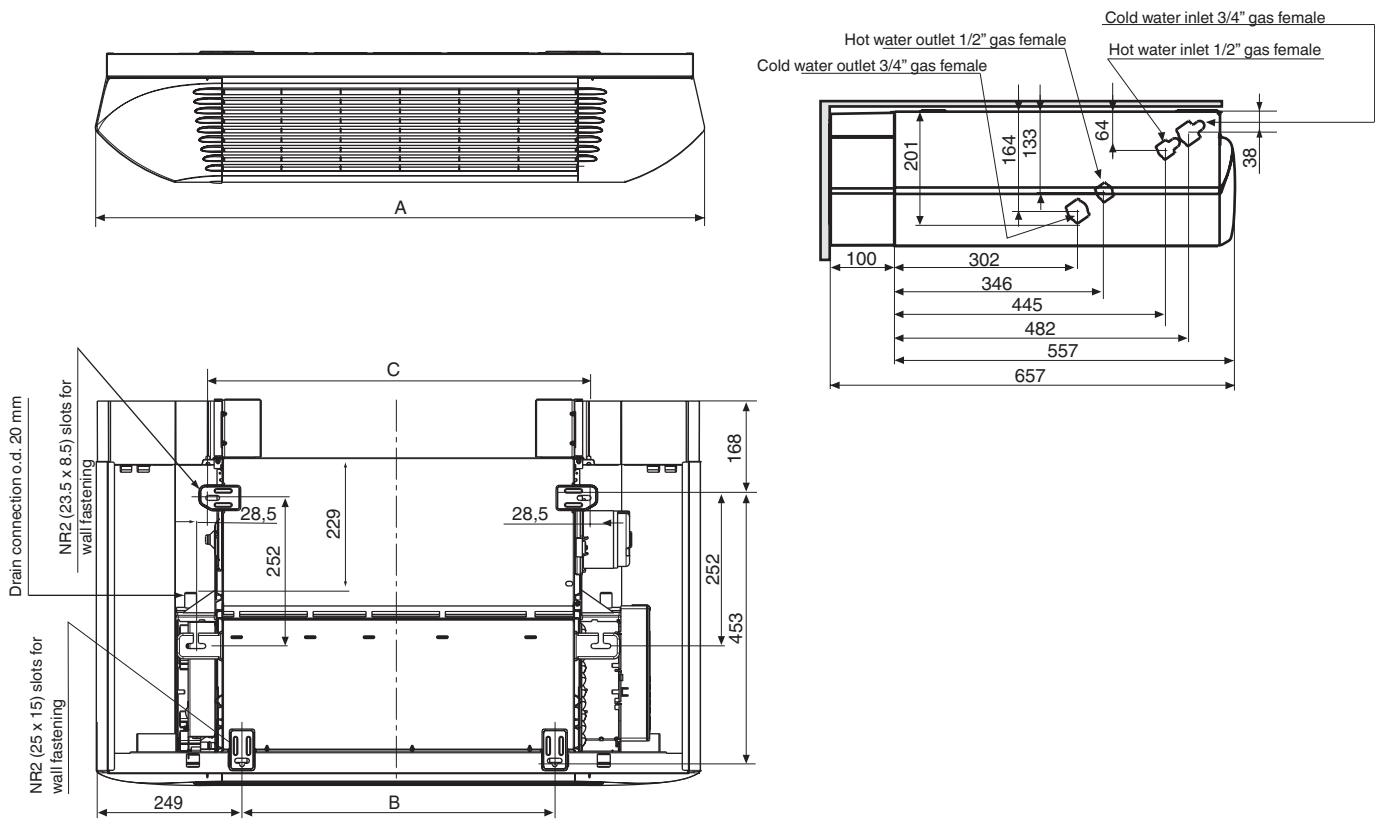


All dimensions are in mm.

42N	S 15-E 19	S 20-S 26-E 29	S 30-E 39-S 42	S 45-E 49-S 65-E 69
A	830	1030	1230	1430
B	332	532	732	932
C	432	632	832	1032
Filter dimensions	189 x 391	189 x 591	189 x 790	189 x 990
Weight kg	17	19	22	35

Dimensions, horizontal units with cabinet

42N_S 15-20-26-30-42-45-65 and 42N_E 19-29-39-49-69

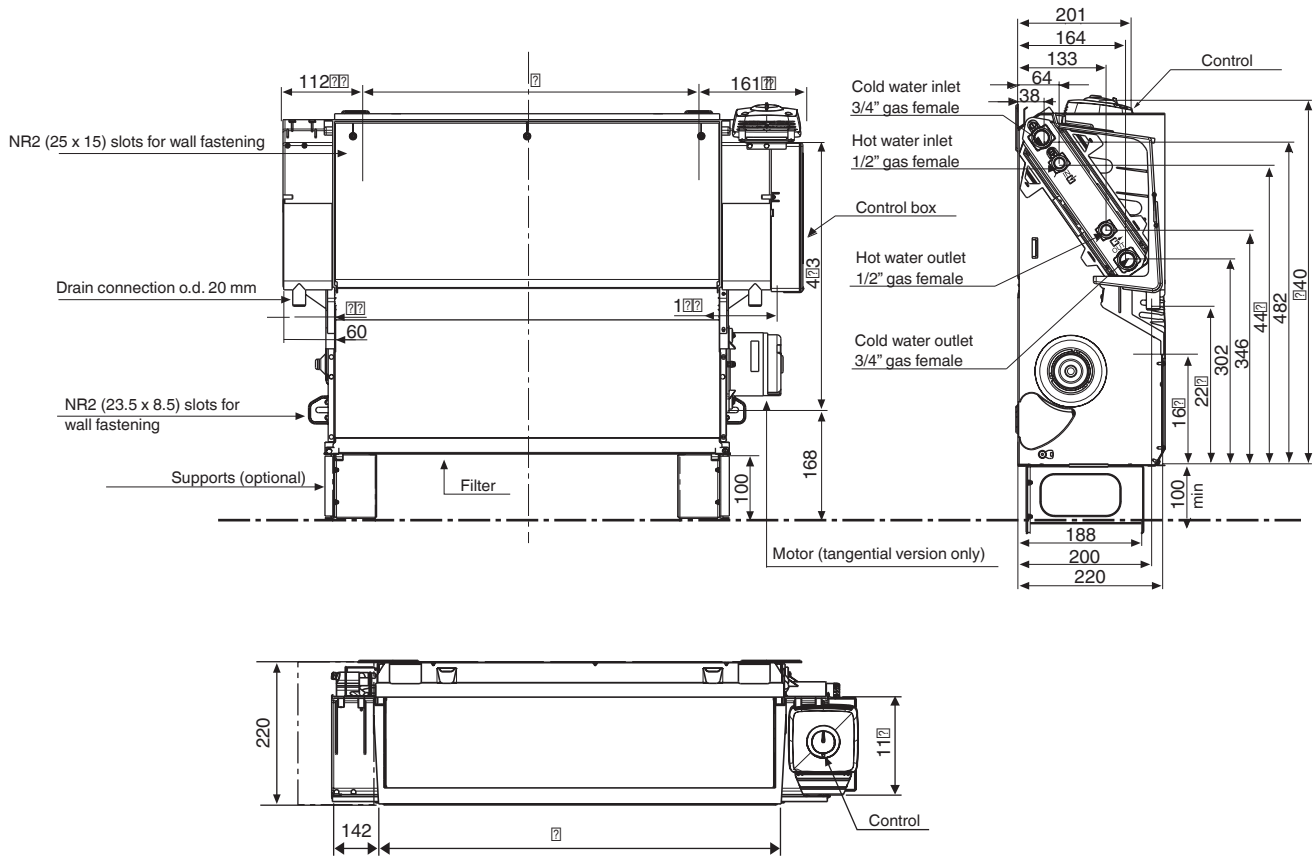


All dimensions are in mm.

42N	S 15-E 19	S 20-S 26-E 29	S 30-E 39-S 42	S 45-E 49-S 65-E 69
A	830	1030	1230	1430
B	332	532	732	932
C	432	632	832	1032
Filter dimensions	189 x 391	189 x 591	189 x 790	189 x 990
Weight kg	17	19	22	35

Dimensions, vertical concealed units

42N_S 15-20-26-30-42-45-65 and 42N_E 19-29-39-49-69

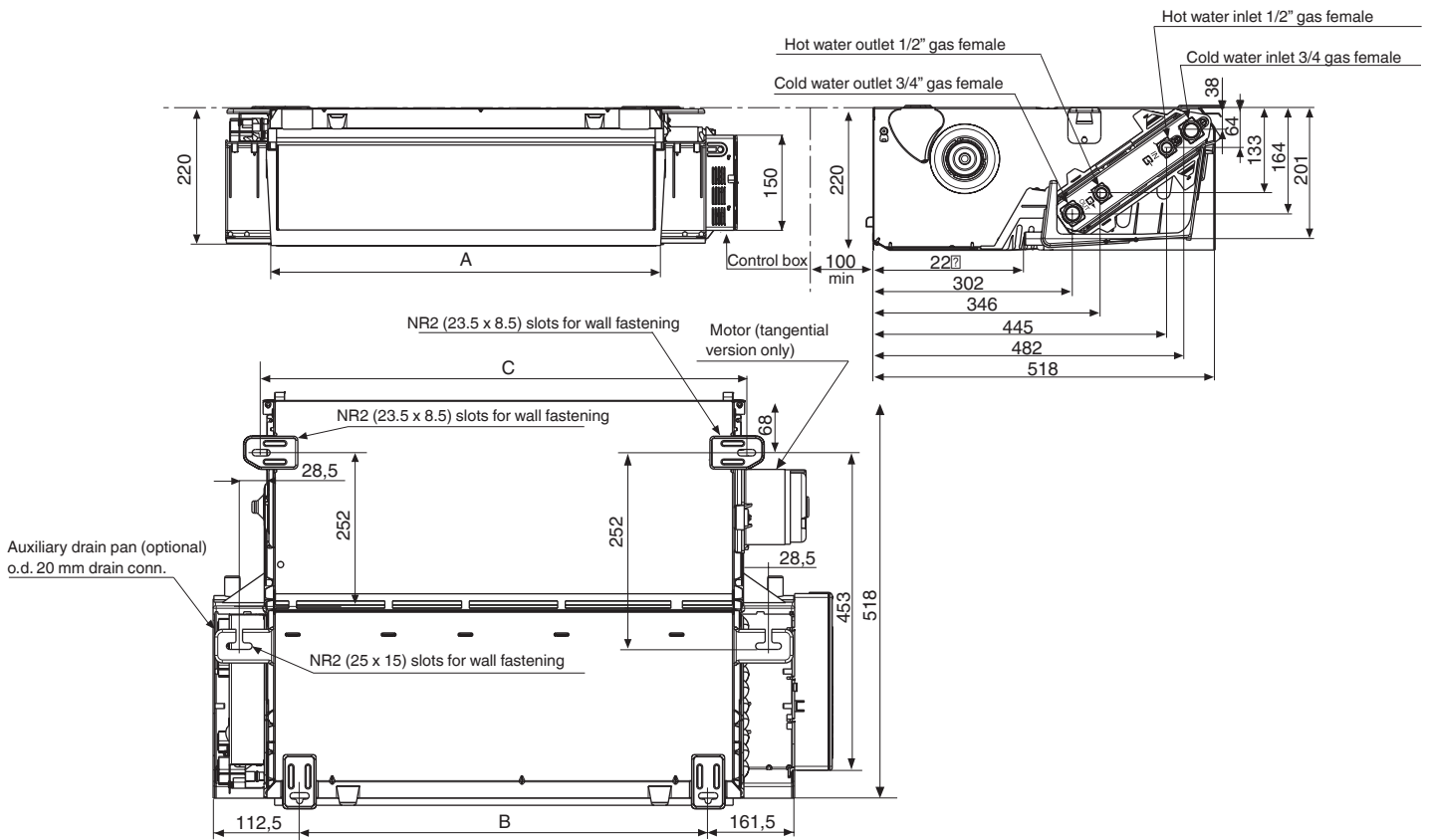


All dimensions are in mm.

42N	S 15-E 19	S 20-S 26-E 29	S 30-E 39-S 42	S 45-E 49-S 65-E 69
A	415	615	815	1015
B	332	532	732	932
Filter dimensions	189 x 391	189 x 591	189 x 790	189 x 990
Weight	kg 13	15	16	28

Dimensions, horizontal concealed units

42N_S 15-20-26-30-42-45-65 and 42N_E 19-29-39-49-69

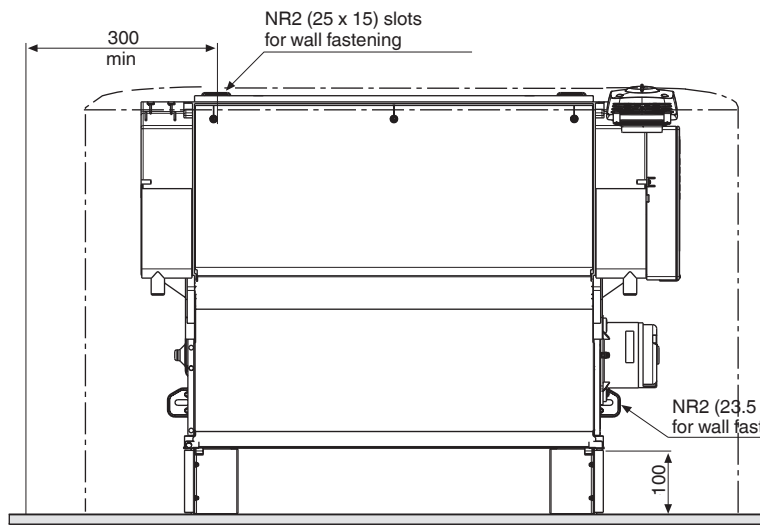


All dimensions are in mm.

42N	S 15-E 19	S 20-S 26-E 29	S 30-E 39-S 42	S 45-E 49-S 65-E 69
A	415	615	815	1015
B	332	532	732	932
C	432	632	832	1032
Filter dimensions	189 x 391	189 x 591	189 x 790	189 x 990
Weight kg	13	15	16	28

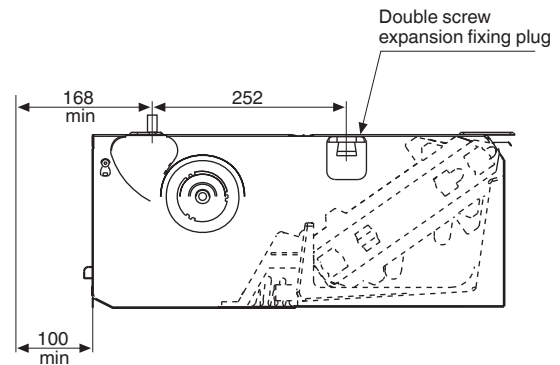
Typical mounting arrangements

Vertical wall-mounted units

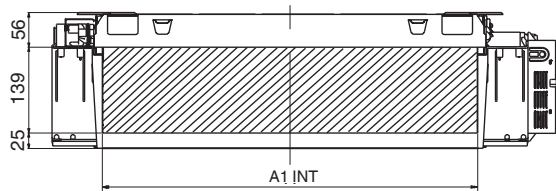
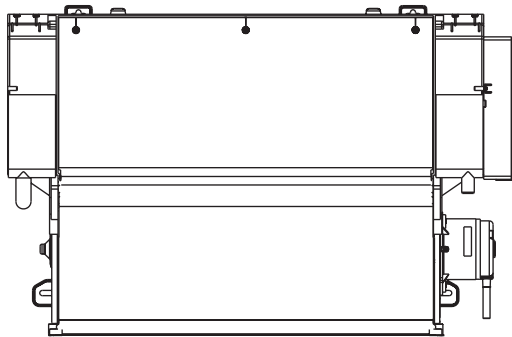
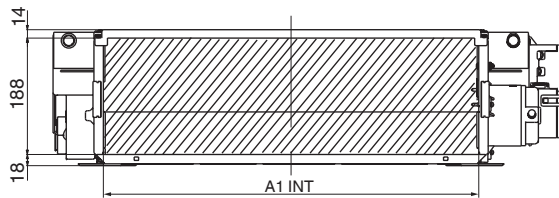


All dimensions are in mm.

Horizontal ceiling-mounted units



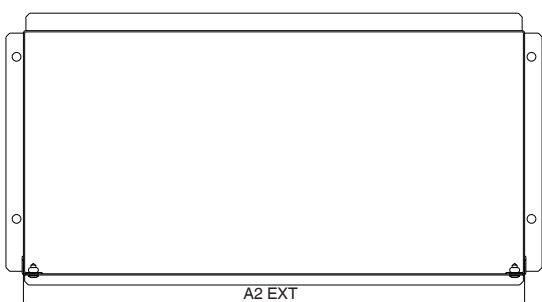
Air inlet and outlet opening dimensions



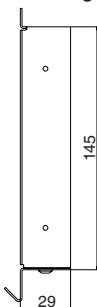
All dimensions are in mm.

42N	A1 INT
S 15-E 19	397
S 20-S 26-E 29	597
S 30-E 39-S 42	797
S 45-E 49-S 65-E 69	997

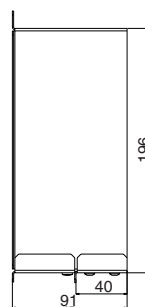
Optional air discharge and return ducts



Discharge



Return

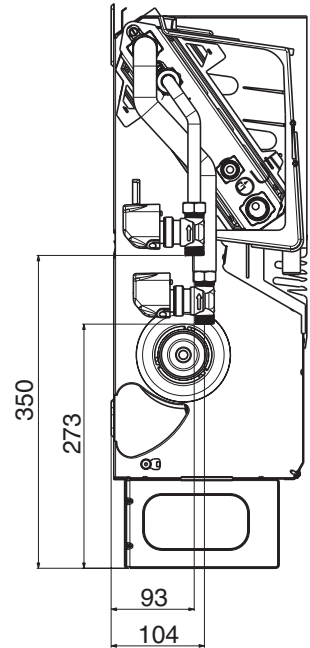
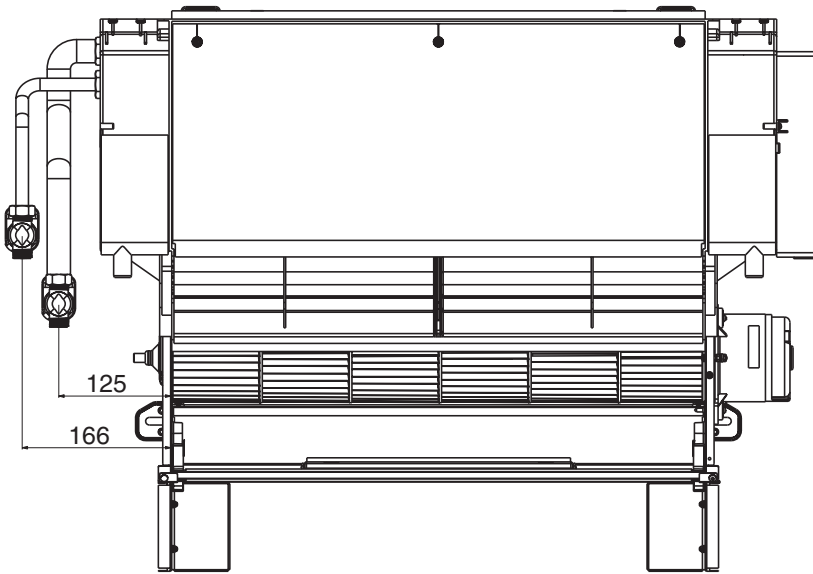


All dimensions are in mm.

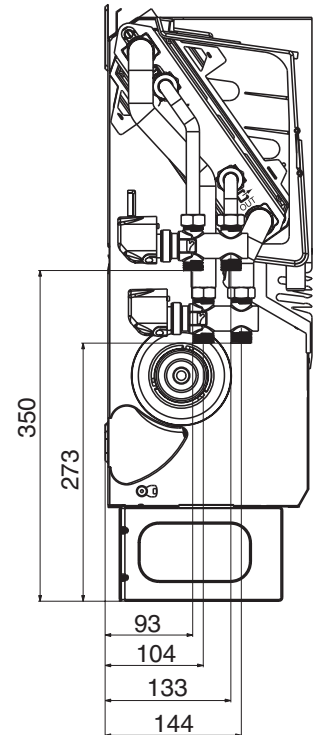
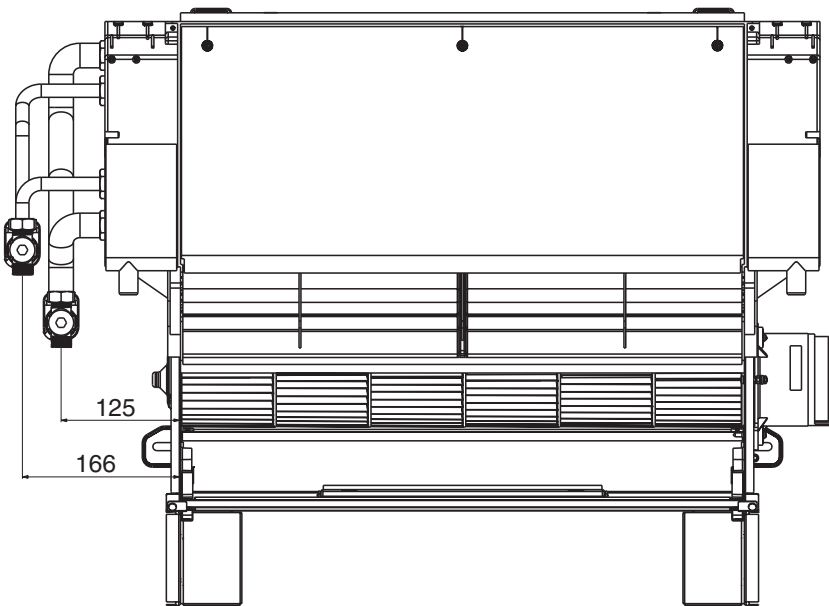
42N	A2 EXT
S 15-E 19	402
S 20-S 26-E 29	602
S 30-E 39-S 42	802
S 45-E 49-S 65-E 69	1002

Valves

Two-way valves



Four-way valves



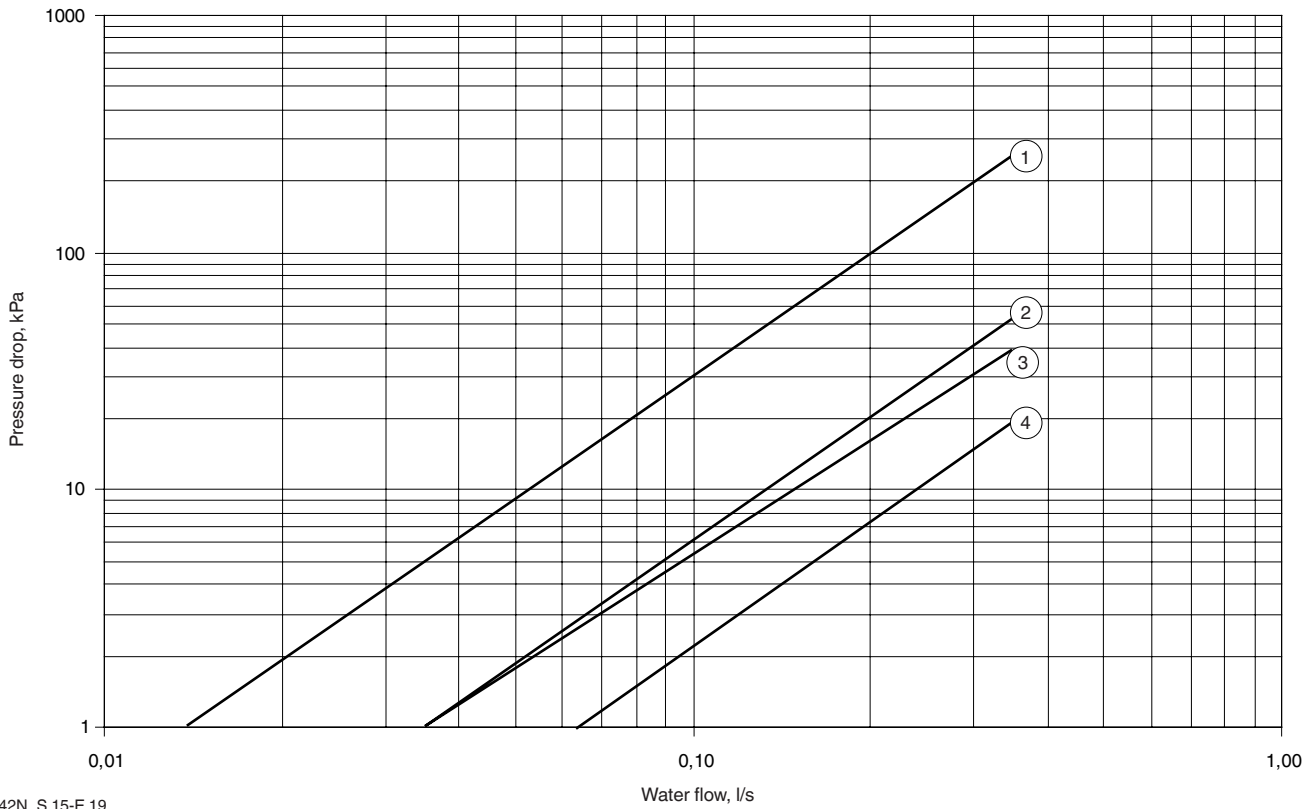
All dimensions are in mm.

Unit option (10th digit)	H	H	H	H	G	G	G	G
Valve kit	4-way valve	4-way valve	4-way valve	4-way valve	2-way valve	2-way valve	2-way valve	2-way valve
Description	42N9185	42N9186	42N9187	42N9188	42N9194	42N9195	42N9196	42N9197
	1/2" cold	3/4" cold	1/2" cold + 1/2" hot	3/4" cold + 1/2" hot	1/2" cold	3/4" cold	1/2" cold + 1/2" hot	3/4" cold + 1/2" hot
2-pipe S 15-E 19	X	-	-	-	X	-	-	-
S 20-S 26-E 29	X	-	-	-	X	-	-	-
S 30-E 39-S 42	-	X	-	-	-	X	-	-
S 45-E 49-S 65-E 69	-	X	-	-	-	X	-	-
4-pipe S 15-E 19	-	-	X	-	-	-	X	-
S 20-S 26-E 29	-	-	X	-	-	-	X	-
S 30-E 39-S 42	-	-	-	X	-	-	-	X
S 45-E 49-S 65-E 69	-	-	-	X	-	-	-	X

Note: The coil can be switched from left to right on site. The unit is factory-fitted with a water valve, if required a new kit can be ordered.

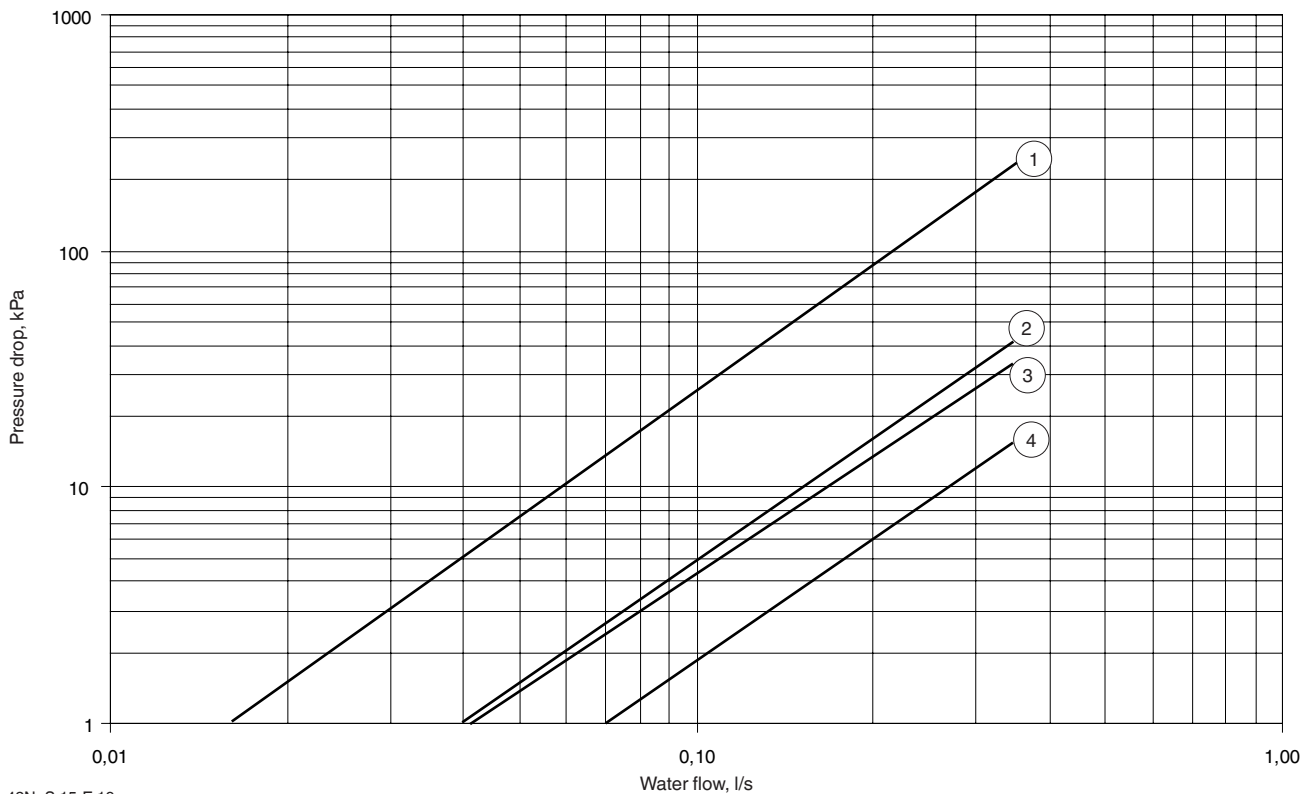
Two-pipe coil pressure drop

Cooling conditions (entering water temperature = 7°C)



- 1 42N_S 15-E 19
- 2 42N_S 30-E 39-S 42
- 3 42N_S 20-S 26-E 29
- 4 42N_S 45-E 49-S 65-E 69

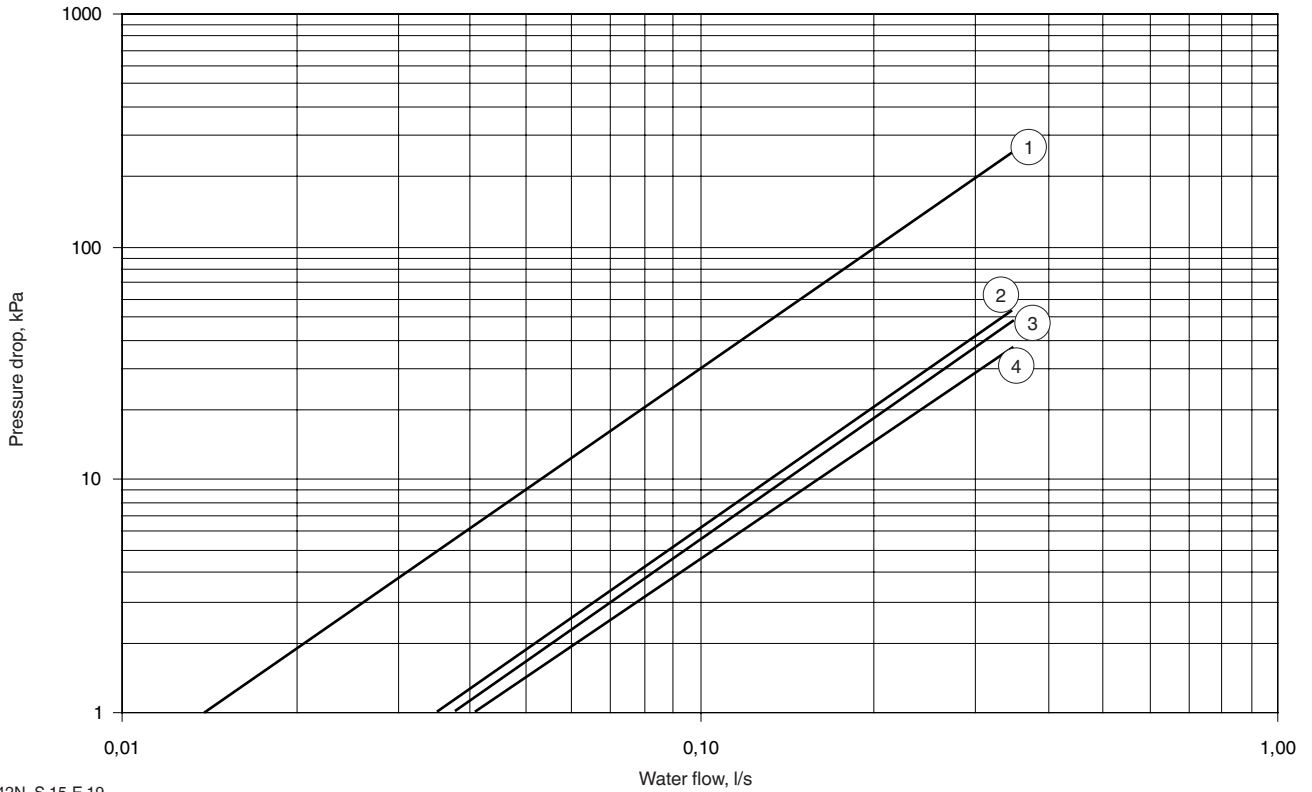
Heating conditions (entering water temperature = 50°C)



- 1 42N_S 15-E 19
- 2 42N_S 30-E 39-S 42
- 3 42N_S 20-S 26-E 29
- 4 42N_S 45-E 49-S 65-E 69

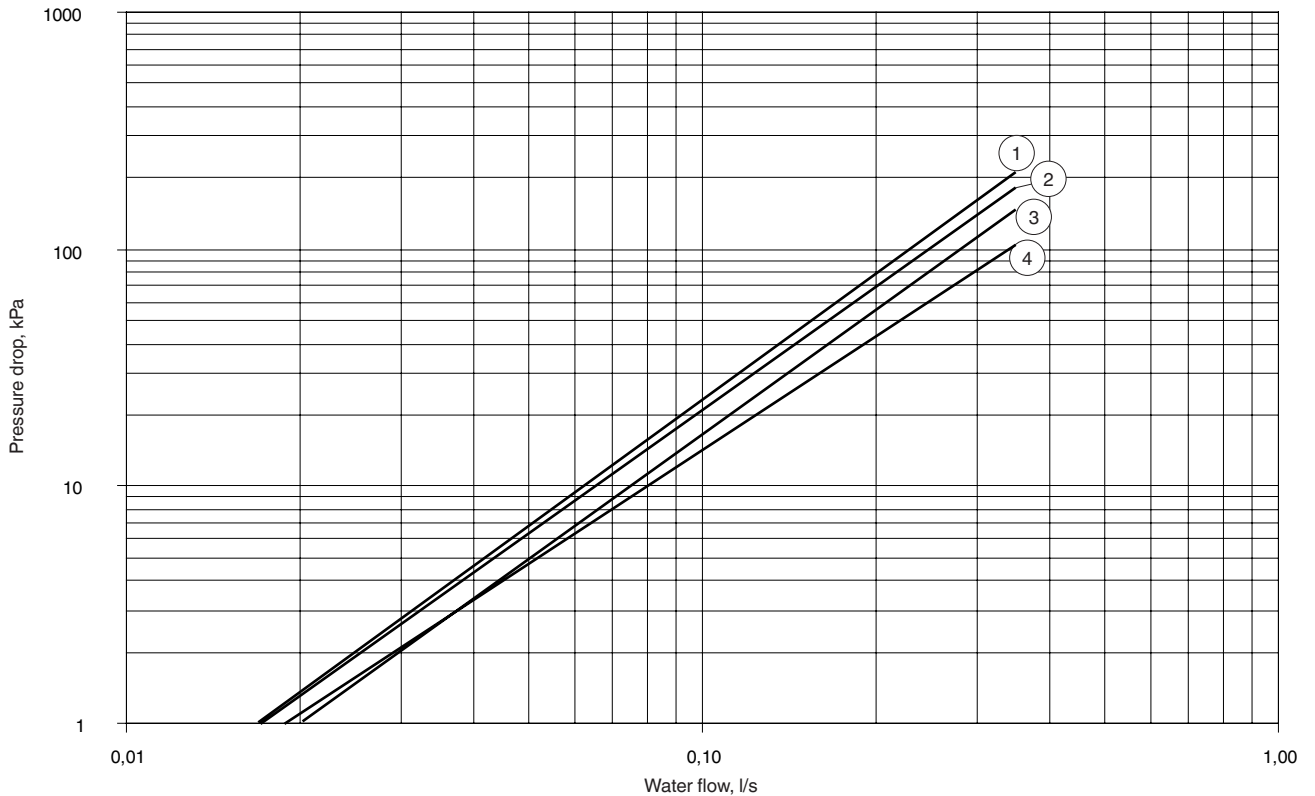
Four-pipe coil pressure drop

Cooling conditions (entering water temperature = 7°C)



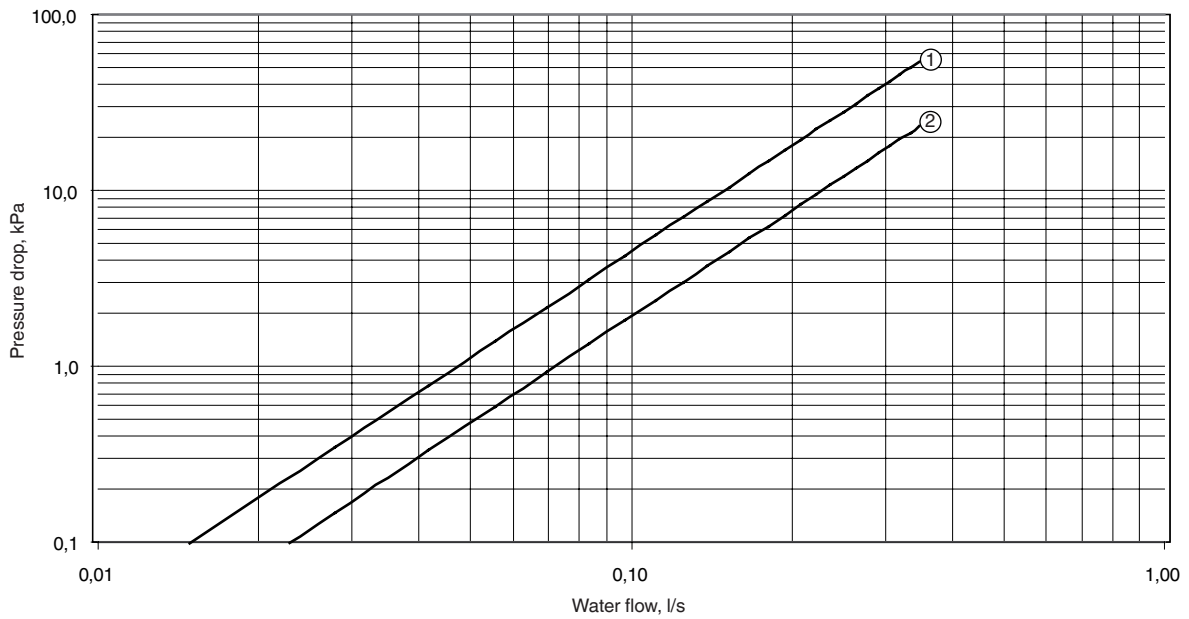
- 1 42N_S 15-E 19
- 2 42N_S 45-E 49-S 65-E 69
- 3 42N_S 30-E 39-S 42
- 4 42N_S 20-S 26-E 29

Heating conditions (entering water temperature = 70°C)



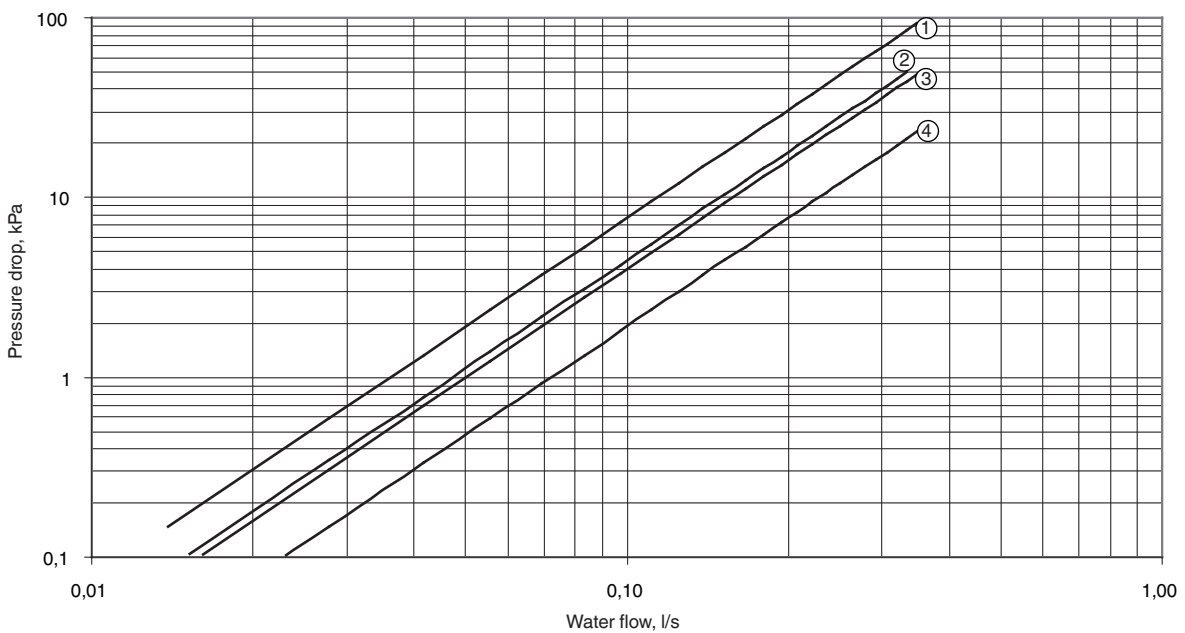
- 1 42N_S 45-E 49-S 65-E 69
- 2 42N_S 30-E 39-S 42
- 3 42N_S 20-S 26-E 29
- 4 42N_S 15-E 19

Two-way valve pressure drop



- 1 1/2", cold and hot
- 2 3/4"

Four-way valve pressure drop



- 1 1/2" bypass, cold and hot
- 2 1/2" open, cold and hot
- 3 3/4" bypass
- 4 3/4" open

Notes:
 Pressure drop values are based on a water temperature of 20°C.
 For other water temperature values, use a correction factor of 0.4% per °C.

Cooling capacities, two-pipe coil

EWT °C	ΔT K	42N_S_15-E_19					42N_S_20-E_29					42N_S_26					42N_S_30-E_39					42N_S_45-E_49					42N_S_65-E69									
		Fan speed					Fan speed					Fan speed					Fan speed					Fan speed					Fan speed									
Entering air temperature 17°C wb / 23°C db		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
5	3	T	1.57	1.41	1.25	1.12	0.87	2.96	2.64	2.35	2.07	1.60	4.06	3.41	2.37	4.46	4.11	3.60	3.06	2.49	5.44	4.79	3.53	6.62	5.80	4.92	4.24	3.40	7.83	7.24	6.64	5.83	5.01			
		S	1.24	1.13	0.98	0.89	0.67	2.03	1.83	1.59	1.42	1.03	2.79	2.32	1.64	3.11	2.84	2.36	1.99	1.43	3.86	3.30	2.35	4.57	4.02	3.37	2.87	2.23	5.15	4.89	4.62	3.97	3.31			
5	5	T	1.41	1.27	1.13	1.01	0.78	2.34	2.17	1.93	1.68	1.28	3.28	2.79	1.95	3.39	3.17	2.73	2.30	1.88	4.12	3.68	2.74	4.89	4.24	3.55	2.98	2.24	5.65	5.27	4.89	4.17	3.36			
		S	1.16	1.05	0.91	0.83	0.62	1.75	1.61	1.40	1.24	0.90	2.45	2.04	1.44	2.65	2.43	2.00	1.67	1.20	3.29	2.83	2.02	3.84	3.35	2.78	2.33	1.75	4.29	4.09	3.88	3.26	2.64			
5	7	T	1.23	1.11	0.98	0.88	0.68	1.70	1.66	1.48	1.26	0.98	2.44	2.10	1.49	2.36	2.22	1.90	1.59	1.30	2.93	2.60	1.95	3.36	2.89	2.40	1.98	1.46	3.84	3.60	3.35	2.77	2.18			
		S	1.07	0.97	0.84	0.76	0.57	1.46	1.38	1.20	1.05	0.77	2.08	1.73	1.23	2.15	1.99	1.63	1.36	0.98	2.70	2.32	1.66	3.07	2.68	2.21	1.84	1.33	3.33	3.22	3.10	2.54	1.97			
5	9	T	1.02	0.92	0.81	0.73	0.57	1.27	1.26	1.16	1.02	0.83	1.82	1.57	1.16	1.67	1.59	1.34	1.15	1.00	2.10	1.87	1.40	2.33	1.99	1.69	1.49	1.23	2.57	2.45	2.32	1.84	1.56			
		S	0.95	0.86	0.75	0.68	0.51	1.20	1.17	1.03	0.92	0.70	1.71	1.44	1.06	1.63	1.54	1.25	1.06	0.81	2.05	1.80	1.32	2.22	1.92	1.63	1.43	1.13	2.26	2.25	2.23	1.82	1.41			
7	3	T	1.30	1.17	1.04	0.93	0.72	2.38	2.15	1.92	1.68	1.29	3.27	2.76	1.93	3.53	3.27	2.87	2.44	2.00	4.30	3.80	2.82	5.22	4.58	3.89	3.35	2.64	6.12	5.68	5.23	4.58	3.93			
		S	1.10	1.00	0.86	0.78	0.59	1.77	1.60	1.39	1.24	0.90	2.45	2.03	1.43	2.71	2.48	2.06	1.73	1.24	3.37	2.88	2.05	3.99	3.51	2.93	2.49	1.92	4.49	4.26	4.03	3.46	2.88			
7	5	T	1.12	1.01	0.90	0.81	0.63	1.76	1.66	1.48	1.28	0.98	2.49	2.12	1.49	2.55	2.38	2.05	1.73	1.41	3.15	2.78	2.06	3.70	3.20	2.67	2.25	1.69	4.31	4.01	3.70	3.13	2.56			
		S	1.01	0.92	0.79	0.72	0.54	1.50	1.38	1.20	1.06	0.76	2.11	1.75	1.23	2.27	2.08	1.71	1.43	1.02	2.84	2.43	1.72	3.28	2.87	2.38	2.00	1.50	3.65	3.49	3.32	2.79	2.25			
7	7	T	0.93	0.83	0.74	0.66	0.51	1.29	1.24	1.11	0.96	0.78	1.86	1.58	1.12	1.82	1.71	1.46	1.22	0.99	2.28	2.01	1.49	2.61	2.24	1.85	1.53	1.20	2.99	2.80	2.60	2.13	1.66			
		S	0.90	0.82	0.71	0.64	0.48	1.23	1.17	1.01	0.90	0.67	1.74	1.46	1.04	1.77	1.65	1.35	1.12	0.81	2.22	1.92	1.39	2.48	2.16	1.78	1.47	1.10	2.63	2.57	2.50	2.00	1.50			
7	9	T	0.78	0.70	0.62	0.55	0.43	1.02	1.01	0.93	0.82	0.66	1.39	1.21	0.93	1.22	1.18	1.04	0.92	0.81	1.55	1.38	1.07	1.69	1.52	1.36	1.21	1.00	1.78	1.74	1.69	1.47	1.25			
		S	0.78	0.70	0.62	0.55	0.42	1.00	0.99	0.88	0.79	0.60	1.36	1.18	0.90	1.20	1.16	1.03	0.86	0.68	1.52	1.34	1.03	1.61	1.47	1.31	1.16	0.92	1.56	1.59	1.62	1.38	1.13			
9	3	T	1.01	0.91	0.81	0.73	0.56	1.80	1.64	1.45	1.27	0.98	2.47	2.09	1.47	2.65	2.46	2.16	1.84	1.49	3.93	3.45	2.92	4.49	4.29	3.94	3.44	2.94	4.64	4.29	3.94	3.44	2.94			
		S	0.95	0.86	0.75	0.68	0.51	1.52	1.37	1.18	1.05	0.77	2.10	1.74	1.22	2.33	2.13	1.77	1.48	1.06	2.89	2.47	1.76	3.43	3.02	2.51	2.12	1.64	3.86	3.67	3.47	2.97	2.47			
9	5	T	0.83	0.74	0.66	0.59	0.46	1.32	1.23	1.09	0.94	0.72	1.86	1.57	1.10	1.94	1.80	1.55	1.30	1.06	2.42	2.12	1.55	2.84	2.45	2.04	1.72	1.31	3.36	3.10	2.84	2.41	1.98			
		S	0.83	0.74	0.66	0.59	0.45	1.26	1.17	1.01	0.89	0.65	1.77	1.47	1.04	1.88	1.74	1.43	1.19	0.86	2.35	2.02	1.45	2.70	2.36	1.96	1.64	1.21	2.95	2.84	2.72	2.26	1.79			
9	7	T	0.70	0.63	0.56	0.50	0.38	0.98	0.95	0.86	0.76	0.61	1.42	1.20	0.86	1.36	1.28	1.09	0.91	0.77	1.71	1.51	1.12	1.93	1.65	1.35	1.17	0.96	2.15	2.04	1.92	1.57	1.21			
		S	0.70	0.63	0.56	0.50	0.38	0.97	0.95	0.84	0.76	0.57	1.39	1.18	0.86	1.34	1.26	1.03	0.85	0.65	1.68	1.47	1.08	1.83	1.59	1.30	1.12	0.89	1.89	1.87	1.84	1.47	1.10			
9	9	T	0.58	0.52	0.46	0.41	0.32	0.80	0.78	0.72	0.64	0.52	1.04	0.94	0.72	0.89	0.88	0.80	0.71	0.63	1.02	0.96	0.82	1.26	1.16	1.04	0.93	0.76	1.30	1.28	1.26	1.11	0.95			
		S	0.58	0.52	0.46	0.41	0.32	0.79	0.78	0.71	0.64	0.49	1.02	0.92	0.72	0.87	0.86	0.75	0.67	0.53	1.00	0.93	0.79	1.20	1.12	1.00	0.89	0.71	1.14	1.18	1.21	1.04	0.86			
11	3	T	0.72	0.65	0.57	0.51	0.40	1.31	1.18	1.05	0.92	0.71	1.83	1.53	1.06	2.01	1.85	1.60	1.35	1.09	2.47	2.16	1.57	3.01	2.80	2.18	1.86	1.47	3.62	3.32	3.02	2.63	2.24			
		S	0.72	0.65	0.57	0.51	0.40	1.27	1.15	1.00	0.89	0.65	1.77	1.46	1.03	1.95	1.79	1.49	1.24	0.89	2.41	2.08	1.48	2.86	2.51	2.09	1.77	1.36	3.18	3.04	2.89	2.46	2.03			
11	5	T	0.62	0.55	0.49	0.44	0.34	1.01	0.93	0.83	0.71	0.56	1.43	1.20	0.83	1.48	1.37	1.18	0.99	0.80	1.84	1.62	1.18	2.15	1.85	1.54	1.28	0.95	2.51	2.33	2.15	1.80	1.44			
		S	0.62	0.55	0.49	0.44	0.34	1.00	0.93	0.82	0.71	0.54	1.41	1.18	0.83	1.45	1.35	1.11	0.93	0.67	1.81	1.57	1.14	2.05	1.79	1.48	1.23	0.88	2.20	2.14	2.07	1.69	1.30			
11	7	T	0.52	0.47	0.41	0.37	0.28	0.74	0.73	0.66	0.59	0.47	1.02	0.88	0.67	0.90	0.86	0.75	0.67	0.59	1.14	1.02	0.78	1.23	1.10	0.99	0.88	0.72	1.29	1.26	1.22	1.07	0.91			
		S	0.52	0.47	0.41	0.37	0.28	0.74	0.73	0.66	0.59	0.46	1.00	0.87	0.67	0.88	0.85	0.71	0.63	0.50	1.12	0.99	0.75	1.17	1.07	0.95	0.84	0.67	1.13	1.15	1.17	1.00	0.82			
11	9	T	0.42	0.37	0.33	0.29	0.23	0.57	0.57	0.52	0.46	0.37	0.74	0.67	0.52	0.62	0.61	0.56	0.50	0.45	0.70	0.67	0.58	0.86	0.80	0.72	0.65	0.53	0.89	0.88	0.86	0.76	0.65			
		S	0.42	0.37	0.33	0.29	0.23	0.56	0.57	0.52	0.46	0.36	0.73	0.66	0.52	0.60	0.60	0.52	0.47	0.37	0.68	0.65	0.56	0.82	0.77	0.69	0.62	0.49	0.78	0.81	0.83	0.71	0.59			
13	3	T	0.54	0.48	0.43	0.38	0.29	1.01	0.90	0.80	0.70	0.54	1.42	1.18	0.81	1.56	1.43	1.24	1.04	0.84	1.93	1.68	1.21	2.32	2.01	1.68	1.42	1.12	2.80	2.57	2.33	2.02	1.70			
		S	0.54	0.48	0.43	0.38	0.29	1.01	0.90	0.80	0.70	0.52	1.40	1.17	0.81	1.53	1.40	1.16	0.97	0.70	1.89	1.63	1.17	2.21	1.94	1.62	1.36	1.03	2.46	2.35	2.24	1.89	1.54			
13	5	T	0.46	0.41	0.37	0.33	0.25	0.72	0.68	0.61	0.54	0.43	1.04	0.88	0.61	1.02	0.95	0.81	0.68	0.56	1.27	1.12	0.83	1.45	1.24	1.02	0.84	0.69	1.64	1.54	1.44	1.16	0.88			
		S	0.46	0.41	0.37	0.33	0.25	0.71	0.68	0.61	0.54	0.42	1.02	0.87	0.61	1.00	0.94	0.77	0.64	0.47	1.25	1.09	0.80	1.38	1.20	0.98	0.81	0.63	1.43	1.41	1.39	1.10	0.80			
13	7	T	0.37	0.33	0.29	0.26	0.20	0.52	0.51	0.47	0.42	0.34	0.67	0.61	0.47	0.57	0.57	0.51	0.46	0.41	0.65	0.62	0.51	0.80	0.74	0.67	0.60	0.49	0.83	0.82	0.80	0.71	0.61			
		S	0.37	0.33	0.29	0.26	0.20	0.52	0.51	0.47	0.42	0.33	0.66	0.60	0.47	0.56	0.56	0.50	0.43	0.34	0.64	0.60	0.51	0.77	0.72	0.64	0.57	0.45	0.73	0.75	0.77	0.66	0.55			
13	9	T	0.25	0.22	0.19	0.17	0.13	0.32	0.32	0.30	0.27	0.22	0.41	0.38	0.30	0.32	0.33	0.30	0.27	0.24	0.36	0.35	0.31	0.45	0.42	0.38	0.34	0.28	0.45	0.45	0.45	0.40	0.34			
		S	0.25	0.22	0.19	0.17	0.13	0.31	0.32	0.30	0.27	0.21	0.40	0.37	0.30	0.32	0.32																			

Cooling capacities, two-pipe coil

EWT °C	ΔT K	42N_S 15-E 19					42N_S 20-E 29					42N_S 26					42N_S 30-E 39					42N_S 42					42N_S 45-E 49					42N_S 65-E 69				
		Fan speed					Fan speed					Fan speed					Fan speed					Fan speed					Fan speed									
Entering air temperature 19°C wb / 25°C db		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
5	3	T 1.94	1.74	1.54	1.39	1.08	3.73	3.31	2.93	2.58	2.00	5.12	4.28	2.96	2.96	2.96	5.69	5.23	4.57	3.89	3.15	6.96	6.10	4.46	4.46	4.46	8.49	7.43	6.29	5.42	4.40	10.12	9.32	8.51	7.50	6.49
5	5	S 1.38	1.25	1.09	0.99	0.74	2.27	2.05	1.77	1.59	1.16	3.12	2.59	1.83	1.61	1.61	3.49	3.19	2.66	2.23	1.61	4.32	3.70	2.64	2.64	2.64	5.12	4.52	3.78	3.23	2.52	5.77	5.48	5.18	4.46	3.73
5	7	T 1.78	1.60	1.42	1.28	0.99	3.15	2.87	2.55	2.22	1.71	4.34	3.68	2.57	2.37	2.37	4.58	4.27	3.74	3.17	2.57	5.57	4.95	3.71	3.71	3.71	6.72	5.90	4.96	4.19	3.18	7.74	7.24	6.73	5.76	4.78
5	9	S 1.30	1.18	1.02	0.93	0.70	2.02	1.85	1.60	1.42	1.03	2.79	2.33	1.65	1.39	1.39	3.03	2.78	2.32	1.94	1.39	3.74	3.22	2.32	2.32	2.32	4.42	3.89	3.23	2.72	2.05	4.91	4.69	4.47	3.78	3.09
5	9	T 1.61	1.45	1.28	1.15	0.89	2.42	2.33	2.07	1.78	1.35	3.46	2.96	2.09	1.71	1.71	3.35	3.17	2.71	2.27	1.87	4.16	3.71	2.79	2.79	2.79	4.72	4.07	3.39	2.80	2.00	5.29	5.00	4.71	3.86	3.01
5	9	S 1.21	1.10	0.95	0.86	0.65	1.71	1.61	1.40	1.23	0.88	2.43	2.03	1.44	1.14	1.14	2.53	2.34	1.92	1.59	1.14	3.18	2.73	1.95	1.95	1.95	3.67	3.16	2.61	2.17	1.59	4.00	3.84	3.67	3.04	2.40
7	3	T 1.41	1.27	1.12	1.01	0.78	1.72	1.76	1.57	1.33	1.08	2.53	2.20	1.58	1.24	1.24	2.04	1.90	1.55	1.29	0.93	2.57	2.22	1.60	1.60	1.60	2.89	2.51	2.06	1.71	1.32	3.07	2.99	2.91	2.33	1.74
7	5	S 1.66	1.50	1.33	1.19	0.93	3.16	2.82	2.50	2.20	1.71	4.32	3.63	2.53	2.27	2.27	4.76	4.39	3.84	3.27	2.66	5.81	5.11	3.76	3.76	3.76	7.07	6.20	5.26	4.53	3.66	8.36	7.72	7.08	6.23	5.37
7	7	T 1.23	1.12	0.97	0.88	0.67	2.02	1.82	1.58	1.41	1.03	2.78	2.30	1.63	1.24	1.24	3.10	2.83	2.35	1.98	1.42	3.84	3.29	2.34	2.34	2.34	4.55	4.01	3.35	2.85	2.23	5.12	4.86	4.60	3.95	3.30
7	9	S 1.50	1.35	1.20	1.08	0.83	2.52	2.34	2.08	1.80	1.38	3.51	2.99	2.10	1.67	1.67	3.62	3.40	2.95	2.48	2.03	4.39	3.93	2.96	2.96	2.96	5.27	4.57	3.83	3.22	2.43	6.03	5.65	5.27	4.45	3.63
7	9	T 1.30	1.17	1.04	0.94	0.73	1.81	1.78	1.59	1.35	1.02	2.60	2.24	1.60	1.24	1.24	2.64	2.43	2.01	1.67	1.20	3.28	2.82	2.02	2.02	2.02	3.85	3.37	2.79	2.34	1.76	4.29	4.10	3.90	3.28	2.66
7	9	S 1.06	0.96	0.83	0.75	0.57	1.46	1.38	1.20	1.05	0.75	2.08	1.73	1.23	0.88	0.88	2.16	2.00	1.64	1.36	0.98	2.71	2.33	1.67	1.67	1.67	3.10	2.71	2.23	1.86	1.35	3.40	3.27	3.13	2.58	2.02
9	3	T 1.07	0.96	0.86	0.77	0.60	1.30	1.30	1.18	1.04	0.85	1.89	1.63	1.19	0.85	0.85	1.73	1.65	1.39	1.17	1.01	2.18	1.94	1.45	1.45	1.45	2.43	2.07	1.72	1.50	1.23	2.70	2.56	2.42	1.99	1.56
9	5	S 0.94	0.88	0.74	0.67	0.51	1.00	0.98	0.87	0.78	0.59	1.38	1.18	0.89	0.67	0.67	1.67	1.58	1.28	1.06	0.80	2.11	1.84	1.34	1.34	1.34	2.00	1.66	1.43	1.13	0.92	2.37	2.35	2.32	1.87	1.41
9	7	T 1.38	1.24	1.10	0.99	0.77	2.54	2.30	2.04	1.80	1.39	3.48	2.94	2.06	1.44	1.44	3.77	3.50	3.06	2.61	2.14	4.58	4.06	3.02	3.02	3.02	5.56	4.89	4.16	3.58	2.85	6.51	6.04	5.57	4.88	4.18
9	9	S 1.09	0.99	0.86	0.78	0.59	1.76	1.60	1.38	1.23	0.90	2.43	2.02	1.42	1.03	1.03	2.70	2.47	2.05	1.72	1.24	3.35	2.87	2.04	2.04	2.04	3.97	3.49	2.92	2.48	1.92	4.47	4.25	4.02	3.45	2.87
11	3	T 1.19	1.07	0.95	0.86	0.67	1.88	1.78	1.59	1.37	1.05	2.65	2.26	1.60	1.14	1.14	2.69	2.52	2.17	1.83	1.50	3.31	2.95	2.19	2.19	2.19	3.89	3.37	2.82	2.37	1.78	4.51	4.20	3.89	3.29	2.68
11	5	S 1.00	0.91	0.79	0.71	0.54	1.49	1.38	1.19	1.05	0.76	2.10	1.75	1.23	0.88	0.88	2.27	2.08	1.71	1.42	1.02	2.83	2.43	1.72	1.72	1.72	3.29	2.87	2.38	2.00	1.50	3.68	3.50	3.32	2.79	2.26
11	7	T 0.98	0.88	0.78	0.70	0.54	1.33	1.29	1.16	0.99	0.79	1.92	1.64	1.16	0.82	0.82	1.87	1.76	1.50	1.26	1.03	2.34	2.07	1.54	1.54	1.54	2.68	2.30	1.91	1.58	1.20	3.09	2.89	2.68	2.21	1.74
11	9	S 0.80	0.72	0.64	0.57	0.44	1.02	1.01	0.93	0.83	0.67	1.42	1.23	0.94	0.71	0.71	1.27	1.22	1.05	0.92	0.81	1.61	1.44	1.09	1.09	1.09	1.75	1.54	1.36	1.21	1.00	1.87	1.81	1.74	1.50	1.25
11	9	T 0.59	0.53	0.47	0.42	0.32	0.80	0.78	0.72	0.64	0.52	1.04	0.94	0.72	0.59	0.59	0.87	0.86	0.80	0.71	0.63	1.04	0.97	0.82	0.82	0.82	1.26	1.16	1.04	0.93	0.76	1.31	1.29	1.26	1.11	0.95
13	3	S 0.59	0.53	0.47	0.42	0.32	0.79	0.78	0.71	0.64	0.48	1.02	0.92	0.72	0.59	0.59	0.87	0.86	0.75	0.67	0.53	1.02	0.94	0.79	0.79	0.79	1.20	1.12	1.00	0.89	0.71	1.15	1.18	1.21	1.04	0.86
13	5	T 0.75	0.67	0.60	0.54	0.42	1.35	1.22	1.09	0.95	0.73	1.87	1.57	1.10	0.82	0.82	2.04	1.88	1.64	1.38	1.12	2.50	2.19	1.61	1.61	1.61	3.04	2.65	2.22	1.89	1.49	3.64	3.35	3.05	2.66	2.27
13	7	S 0.75	0.67	0.60	0.54	0.42	1.27	1.14	0.99	0.88	0.64	1.76	1.46	1.02	0.88	0.88	1.95	1.78	1.48	1.24	0.88	2.41	2.07	1.47	1.47	1.47	2.86	2.52	2.09	1.77	1.36	3.19	3.05	2.90	2.47	2.04
13	9	T 0.63	0.56	0.50	0.45	0.34	1.02	0.94	0.83	0.72	0.56	1.44	1.21	0.84	0.81	0.81	1.50	1.39	1.20	1.00	0.81	1.87	1.64	1.19	1.19	1.19	2.19	1.89	1.57	1.31	0.98	2.57	2.38	2.19	1.84	1.48
13	9	S 0.63	0.56	0.50	0.45	0.34	1.01	0.94	0.82	0.72	0.54	1.42	1.19	0.84	0.68	0.68	1.47	1.37	1.13	0.94	0.68	1.84	1.59	1.15	1.15	1.15	2.09	1.82	1.51	1.26	0.90	2.25	2.18	2.10	1.72	1.34
13	9	T 0.52	0.47	0.42	0.37	0.29	0.74	0.72	0.66	0.59	0.47	1.04	0.89	0.67	0.59	0.59	0.93	0.89	0.76	0.67	0.59	1.16	1.05	0.79	0.79	0.79	1.28	1.11	0.99	0.88	0.72	1.36	1.32	1.27	1.09	0.91
13	9	S 0.52	0.47	0.42	0.37	0.29	0.74	0.72	0.66	0.59	0.46	1.02	0.88	0.67	0.59	0.59	0.92	0.88	0.72	0.63	0.50	1.16	1.02	0.76	0.76	0.76	1.22	1.08	0.95	0.84	0.67	1.20	1.21	1.22	1.02	0.82
13	9	T 0.42	0.37	0.33	0.29	0.23	0.57	0.57	0.52	0.46	0.37	0.74	0.67	0.52	0.46	0.46	0.62	0.61	0.56	0.50	0.45	0.70	0.67	0.58	0.58	0.58	0.87	0.80	0.72	0.65	0.53	0.89	0.88	0.87	0.76	0.65
13	9	S 0.42	0.37	0.33	0.29	0.23	0.56	0.57	0.52	0.46	0.36	0.72	0.66	0.52	0.47	0.47	0.60	0.60	0.52	0.47	0.37	0.68	0.65	0.56	0.56	0.56	0.82	0.77	0.70	0.62	0.49	0.78	0.81	0.83	0.71	0.59

EWT Entering water temperature
 ΔT Water temperature rise
 wb Wet bulb temperature
 db Dry bulb temperature
 T Total cooling capacity, kW
 S Sensible cooling capacity, kW

Cooling capacities, two-pipe coil

EWT °C	ΔT K	42N_S 15-E 19					42N_S 20-E 29					42N_S 30-E 39					42N_S 42					42N_S 45-E 49					42N_S 65-E 69											
		Fan speed					Fan speed					Fan speed					Fan speed					Fan speed					Fan speed											
		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5		
Entering air temperature 19°C wb / 27°C db																																						
5	3	T	1.93	1.73	1.54	1.38	1.07	3.71	3.29	2.91	2.57	1.99	5.09	4.26	2.95	5.66	5.21	4.44	6.93	6.07	4.44	8.45	7.40	6.26	5.40	4.38	10.08	9.275	8.47	7.47	6.47							
5	5	S	1.54	1.40	1.21	1.09	0.83	2.54	2.28	1.97	1.76	1.29	3.50	2.89	2.04	3.93	3.58	2.98	4.88	4.17	2.96	5.79	5.09	4.25	3.62	2.83	6.56	6.21	5.86	5.04	4.22							
5	7	T	1.77	1.59	1.42	1.27	0.99	3.14	2.86	2.53	2.21	1.70	4.32	3.67	2.56	4.57	4.26	3.73	5.56	4.93	3.70	6.72	5.90	4.96	4.20	3.25	7.79	7.26	6.73	5.8	4.87							
5	9	S	1.46	1.32	1.15	1.04	0.78	2.29	2.08	1.80	1.60	1.16	3.17	2.63	1.86	3.47	3.18	2.64	4.30	3.69	2.64	5.08	4.47	3.71	3.13	2.38	5.69	5.415	5.14	4.37	3.6							
5	7	T	1.60	1.44	1.28	1.15	0.89	2.47	2.35	2.09	1.80	1.37	3.50	2.99	2.11	3.52	3.30	2.84	4.36	3.86	2.87	5.07	4.39	3.66	3.07	2.28	5.86	5.465	5.07	4.25	3.43							
5	9	S	1.37	1.24	1.08	0.97	0.73	2.00	1.85	1.61	1.42	1.02	2.82	2.34	1.65	3.01	2.76	2.27	3.77	3.23	2.29	4.36	3.80	3.15	2.64	1.97	4.85	4.625	4.4	3.68	2.96							
5	7	T	1.40	1.26	1.12	1.01	0.78	1.92	1.87	1.67	1.42	1.13	2.75	2.36	1.68	2.68	2.52	2.19	3.35	2.96	2.20	3.84	3.30	2.74	2.27	1.71	4.42	4.13	3.84	3.17	2.5							
5	9	S	1.27	1.15	1.00	0.90	0.68	1.73	1.63	1.42	1.24	0.92	2.46	2.06	1.61	2.54	2.35	1.93	3.18	2.75	1.97	3.61	3.15	2.60	2.15	1.58	3.88	3.76	3.64	2.95	2.26							
7	3	T	1.66	1.49	1.32	1.19	0.92	3.14	2.80	2.49	2.19	1.70	4.30	3.62	2.51	4.73	4.37	3.82	5.78	5.08	3.74	7.03	6.16	5.23	4.51	3.64	8.32	7.68	7.04	6.19	5.34							
7	5	S	1.39	1.27	1.10	0.99	0.75	2.29	2.05	1.78	1.59	1.16	3.16	2.61	1.83	3.54	3.22	2.68	4.40	3.75	2.66	5.21	4.58	3.82	3.25	2.54	5.9	5.59	5.28	4.535	3.79							
7	7	T	1.49	1.34	1.19	1.07	0.83	2.54	2.34	2.08	1.81	1.39	3.53	3.00	2.10	3.70	3.46	3.01	4.50	4.00	3.00	5.45	4.74	3.98	3.37	2.60	6.35	5.9	5.45	4.675	3.9							
7	9	S	1.31	1.19	1.03	0.93	0.70	2.03	1.85	1.60	1.42	1.03	2.83	2.35	1.65	3.10	2.84	2.35	3.85	3.30	2.35	4.55	3.98	3.30	2.78	2.12	5.1	4.85	4.6	3.9	3.2							
7	7	T	1.29	1.16	1.04	0.93	0.72	1.97	1.86	1.66	1.43	1.09	2.79	2.37	1.68	2.84	2.64	2.27	3.53	3.10	2.29	4.11	3.55	2.96	2.48	1.87	4.83	4.47	4.11	3.475	2.84							
7	9	S	1.21	1.10	0.96	0.86	0.65	1.77	1.64	1.42	1.25	0.90	2.49	2.07	1.46	2.65	2.44	2.01	3.32	2.85	2.03	3.83	3.35	2.77	2.32	1.72	4.21	4.04	3.87	3.215	2.56							
7	9	T	1.11	1.00	0.89	0.80	0.62	1.56	1.50	1.34	1.17	0.84	2.25	1.91	1.35	2.21	2.07	1.77	2.76	2.43	1.80	3.17	2.72	2.25	1.86	1.46	3.63	3.4	3.17	2.59	2.01							
9	3	S	1.10	1.00	0.87	0.78	0.59	1.50	1.43	1.24	1.10	0.83	2.14	1.80	1.28	2.16	2.02	1.65	2.70	2.35	1.70	3.62	3.23	2.62	2.17	1.35	3.19	3.115	3.04	2.425	1.81							
9	5	T	1.37	1.23	1.09	0.98	0.76	2.54	2.29	2.04	1.79	1.38	3.47	2.93	2.05	3.79	3.51	3.07	4.62	4.08	3.02	5.63	4.94	4.20	3.62	2.92	6.66	6.15	5.64	4.965	4.29							
9	7	S	1.25	1.13	0.98	0.89	0.67	2.03	1.83	1.58	1.41	1.03	2.81	2.32	1.63	3.15	2.87	2.38	3.91	3.34	2.36	4.64	4.08	3.40	2.89	2.25	5.26	4.98	4.7	4.04	3.38							
9	9	T	1.18	1.06	0.95	0.85	0.66	1.99	1.84	1.64	1.42	1.09	2.79	2.36	1.65	2.96	2.74	2.37	3.63	3.20	2.36	4.36	3.78	3.16	2.68	2.08	5.18	4.77	4.36	3.75	3.14							
9	7	S	1.16	1.05	0.91	0.82	0.62	1.79	1.63	1.41	1.25	0.91	2.50	2.07	1.45	2.75	2.51	2.07	3.41	2.93	2.07	4.01	3.51	2.91	2.46	1.87	4.49	4.27	4.05	3.43	2.81							
9	9	T	1.02	0.91	0.81	0.73	0.56	1.59	1.48	1.32	1.14	0.88	2.25	1.90	1.33	2.33	2.16	1.86	2.90	2.54	1.86	3.40	2.93	2.43	2.04	1.53	4	3.7	3.4	2.865	2.33							
9	9	S	1.02	0.91	0.81	0.73	0.56	1.54	1.43	1.24	1.10	0.80	2.16	1.81	1.28	2.27	2.10	1.73	2.84	2.45	1.76	3.23	2.83	2.34	1.95	1.41	3.51	3.385	3.26	2.68	2.1							
9	9	T	0.89	0.80	0.71	0.63	0.49	1.27	1.22	1.10	0.97	0.78	1.83	1.55	1.11	1.77	1.67	1.42	2.22	1.96	1.45	2.51	2.15	1.77	1.50	1.23	2.82	2.665	2.51	2.04	1.57							
11	3	S	0.89	0.80	0.71	0.63	0.49	1.26	1.22	1.08	0.97	0.73	1.79	1.52	1.11	1.74	1.64	1.33	2.18	1.90	1.40	2.39	2.08	1.70	1.44	1.14	2.48	2.445	2.41	1.915	1.42							
11	5	T	1.06	0.96	0.85	0.77	0.60	1.98	1.78	1.58	1.39	1.07	2.71	2.28	1.60	2.97	2.74	2.40	3.64	3.19	2.36	4.45	3.89	3.30	2.84	2.27	5.34	4.9	4.46	3.93	3.4							
11	7	S	1.06	0.96	0.85	0.77	0.59	1.79	1.61	1.39	1.24	0.90	2.48	2.05	1.43	2.78	2.53	2.10	3.45	2.94	2.08	4.10	3.60	3.01	2.56	1.98	4.62	4.385	4.15	3.565	2.98							
11	9	T	0.92	0.82	0.73	0.65	0.51	1.59	1.44	1.28	1.12	0.86	2.23	1.87	1.29	2.41	2.22	1.92	3.00	2.61	1.89	3.58	3.09	2.58	2.19	1.71	4.3	3.94	3.58	3.09	2.6							
11	7	S	0.92	0.82	0.73	0.65	0.51	1.55	1.42	1.23	1.09	0.80	2.17	1.80	1.27	2.36	2.17	1.79	2.93	2.52	1.80	3.41	2.99	2.49	2.09	1.58	3.78	3.61	3.44	2.895	2.35							
11	9	T	0.81	0.73	0.64	0.58	0.44	1.29	1.20	1.06	0.92	0.73	1.84	1.55	1.07	1.88	1.75	1.50	2.35	2.06	1.51	2.73	2.35	1.95	1.62	1.21	3.17	2.95	2.73	2.265	1.8							
11	9	S	0.81	0.73	0.64	0.58	0.44	1.28	1.20	1.06	0.92	0.70	1.81	1.52	1.07	1.85	1.72	1.41	2.31	2.00	1.45	2.60	2.27	1.88	1.55	1.11	2.78	2.7	2.62	2.125	1.63							
11	9	T	0.71	0.64	0.56	0.50	0.39	1.02	0.99	0.90	0.80	0.64	1.44	1.23	0.91	1.32	1.26	1.07	1.67	1.48	1.11	1.83	1.57	1.36	1.21	1.00	1.98	1.9	1.82	1.535	1.25							
13	3	S	0.71	0.64	0.56	0.50	0.39	1.01	0.99	0.90	0.80	0.62	1.41	1.21	0.91	1.30	1.24	1.00	1.64	1.44	1.07	1.74	1.52	1.31	1.16	0.92	1.74	1.745	1.75	1.44	1.13							
13	5	T	0.81	0.73	0.64	0.58	0.45	1.57	1.38	1.22	1.07	0.83	2.17	1.81	1.23	2.43	2.22	1.93	3.00	2.61	1.88	3.67	3.19	2.68	2.29	1.84	4.46	4.07	3.68	3.245	2.81							
13	7	S	0.81	0.73	0.64	0.58	0.45	1.55	1.38	1.21	1.07	0.79	2.14	1.77	1.23	2.38	2.18	1.82	2.95	2.53	1.81	3.50	3.09	2.58	2.19	1.70	3.92	3.73	3.54	3.04	2.54							
13	9	T	0.73	0.65	0.58	0.52	0.40	1.30	1.17	1.04	0.91	0.70	1.83	1.53	1.05	1.97	1.81	1.56	2.45	2.13	1.54	2.91	2.51	2.09	1.77	1.36	3.47	3.19	2.91	2.49	2.07							
13	7	S	0.73	0.65	0.58	0.52	0.40	1.29	1.17	1.04	0.91	0.67	1.81	1.51	1.05	1.93	1.78	1.47	2.41	2.07	1.49	2.77	2.43	2.02	1.69	1.26	3.05	2.925	2.8	2.335	1.87							
13	9	T	0.64	0.58	0.51	0.46	0.35	1.01	0.95	0.85	0.75	0.60	1.45	1.23	0.86	1.43	1.34	1.15	1.80	1.58	1.17	2.05	1.76	1.45	1.19	0.96	2.33	2.185	2.04	1.65	1.26							
13	9	S	0.64	0.58	0.51	0.46	0.35	1.00	0.95	0.85	0.75	0.58	1.43	1.21	0.86	1.41	1.32	1.08	1.76	1.54	1.13	1.95	1.70	1.40	1.14	0.89	2.04	2	1.96	1.55	1.14							
13	9	T	0.55	0.50	0.44	0.39	0.30	0.79	0.78	0.72	0.63	0.51	1.05	0.93	0.72	0.90	0.88	0.80	1.26	1.16	0.99	1.26	1.16	1.04	0.93	0.76	1.31	1.285	1.26	1.105	0.95							
13	9	S	0.55	0.50	0.44	0.39	0.30	0.79	0.78	0.72	0.63	0.49	1.03	0.92	0.72	0.88	0.87	0.75	1.07	0.96	0.79	1.20	1.12	1.00	0.89	0.71	1.15	1.18	1.21	1.035	0.86							

EWT Entering water temperature
 ΔT Water temperature rise
 wb Wet bulb temperature
 db Dry bulb temperature
 T Total cooling capacity, kW
 S Sensible cooling capacity, kW

Cooling capacities, two-pipe coil

EWT °C	ΔT K	42N_S 15-E 19					42N_S 20-E 29					42N_S 26					42N_S 30-E 39					42N_S 42					42N_S 45-E 49					42N_S 65-E 69								
		Fan speed					Fan speed					Fan speed					Fan speed					Fan speed					Fan speed					Fan speed								
		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5				
Entering air temperature 21°C wb / 29°C db																																								
5	3	T	2.32	2.08	1.85	1.66	1.29	4.53	3.99	3.53	3.11	2.42	6.22	5.19	3.57	6.97	6.39	5.59	4.74	3.83	8.55	7.47	5.43	10.44	9.13	7.72	6.66	5.41	12.53	11.50	10.46	9.25	8.04							
		S	1.67	1.52	1.32	1.19	0.90	2.77	2.49	2.15	1.93	1.41	3.82	3.16	2.22	4.30	3.92	3.26	2.74	1.96	5.33	4.56	3.23	6.33	5.57	4.66	3.98	3.12	7.16	6.78	6.40	5.52	4.63							
5	5	T	2.17	1.95	1.73	1.55	1.20	3.96	3.58	3.17	2.78	2.14	5.44	4.59	3.21	5.85	5.43	4.75	4.05	3.31	7.13	6.30	4.69	8.64	7.58	6.44	5.52	4.31	10.07	9.36	8.65	7.54	6.43							
		S	1.59	1.44	1.25	1.13	0.85	2.53	2.30	1.99	1.78	1.29	3.49	2.90	2.06	3.84	3.52	2.92	2.46	1.77	4.75	4.08	2.92	5.62	4.95	4.14	3.51	2.68	6.29	5.99	5.68	4.86	4.03							
5	7	T	2.00	1.80	1.59	1.43	1.11	3.29	3.07	2.73	2.36	1.81	4.62	3.93	2.75	4.71	4.43	3.81	3.21	2.62	5.73	5.13	3.84	6.77	5.87	4.91	4.11	3.05	7.75	7.26	6.77	5.67	4.56							
		S	1.50	1.37	1.18	1.07	0.81	2.25	2.08	1.80	1.59	1.15	3.16	2.63	1.86	3.39	3.12	2.57	2.14	1.53	4.20	3.62	2.59	4.91	4.29	3.54	2.97	2.22	5.48	5.22	4.96	4.16	3.35							
5	9	T	1.81	1.63	1.45	1.30	1.01	2.56	2.51	2.24	1.91	1.44	3.68	3.11	2.26	3.50	3.32	2.83	2.37	1.75	4.34	3.88	2.92	4.95	4.27	3.55	2.93	2.09	5.59	5.27	4.94	4.05	3.16							
		S	1.41	1.28	1.11	1.01	0.76	1.96	1.85	1.60	1.41	1.01	2.79	2.33	1.65	2.90	2.67	2.19	1.82	1.31	3.64	3.13	2.23	4.17	3.63	2.99	2.49	1.82	4.59	4.40	4.21	3.48	2.74							
7	3	T	2.05	1.84	1.63	1.47	1.14	3.96	3.51	3.10	2.74	2.13	5.42	4.54	3.14	6.04	5.55	4.86	4.13	3.35	7.39	6.48	4.74	9.01	7.89	6.69	5.77	4.68	10.75	9.89	9.03	7.97	6.91							
		S	1.52	1.39	1.20	1.09	0.82	2.52	2.26	1.96	1.75	1.29	3.48	2.88	2.02	3.91	3.56	2.96	2.49	1.78	4.85	4.15	2.94	5.76	5.07	4.23	3.61	2.82	6.52	6.18	5.83	5.02	4.20							
7	5	T	1.88	1.69	1.50	1.35	1.05	3.36	3.06	2.72	2.38	1.83	4.61	3.91	2.75	4.88	4.55	3.98	3.40	2.77	5.93	5.27	3.97	7.17	6.30	5.36	4.54	3.51	8.29	7.73	7.17	6.21	5.25							
		S	1.44	1.31	1.14	1.03	0.78	2.28	2.08	1.80	1.60	1.16	3.15	2.62	1.85	3.45	3.17	2.63	2.21	1.58	4.28	3.68	2.63	5.06	4.45	3.72	3.14	2.39	5.67	5.40	5.12	4.37	3.61							
7	7	T	1.70	1.53	1.36	1.22	0.95	2.66	2.52	2.25	1.94	1.48	3.76	3.21	2.26	3.76	3.53	3.04	2.55	2.09	4.63	4.13	3.09	5.39	4.67	3.90	3.26	2.42	6.19	5.79	5.38	4.51	3.64							
		S	1.36	1.23	1.07	0.97	0.73	2.00	1.85	1.60	1.42	1.02	2.82	2.34	1.65	3.02	2.77	2.28	1.89	1.36	3.77	3.23	2.29	4.37	3.81	3.15	2.64	1.98	4.87	4.65	4.42	3.71	2.99							
7	9	T	1.49	1.34	1.19	1.07	0.83	2.01	1.98	1.77	1.51	1.17	2.90	2.50	1.78	2.80	2.64	2.25	1.88	1.54	3.49	3.09	2.31	3.99	3.43	2.84	2.35	1.74	4.57	4.28	3.98	3.29	2.60							
		S	1.26	1.15	0.99	0.89	0.67	1.73	1.63	1.41	1.24	0.90	2.46	2.06	1.45	2.56	2.36	1.94	1.61	1.16	3.21	2.76	1.97	3.67	3.20	2.64	2.19	1.59	3.98	3.84	3.70	3.03	2.35							
9	3	T	1.76	1.58	1.41	1.26	0.98	3.35	2.99	2.65	2.34	1.82	4.58	3.85	2.68	5.05	4.67	4.08	3.48	2.83	6.17	5.43	4.00	7.51	6.59	5.59	4.82	3.90	8.88	8.21	7.53	6.63	5.72							
		S	1.38	1.26	1.09	0.98	0.74	2.27	2.04	1.77	1.58	1.16	3.14	2.59	1.82	3.52	3.21	2.66	2.24	1.60	4.37	3.73	2.64	5.19	4.56	3.81	3.24	2.53	5.88	5.57	5.25	4.51	3.77							
9	5	T	1.58	1.42	1.27	1.14	0.88	2.72	2.51	2.23	1.94	1.49	3.74	3.20	2.25	3.92	3.67	3.22	2.72	2.22	4.75	4.24	3.20	5.76	5.05	4.25	3.60	2.77	6.64	6.20	5.76	4.95	4.14							
		S	1.30	1.18	1.02	0.92	0.70	2.03	1.84	1.60	1.42	1.03	2.81	2.34	1.65	3.08	2.82	2.34	1.96	1.40	3.83	3.28	2.34	4.53	3.97	3.30	2.78	2.12	5.08	4.83	4.58	3.89	3.20							
9	7	T	1.38	1.24	1.10	0.99	0.77	2.07	1.98	1.76	1.52	1.15	2.93	2.51	1.78	2.95	2.76	2.38	2.00	1.64	3.66	3.23	2.41	4.28	3.70	3.08	2.58	1.93	4.96	4.62	4.27	3.60	2.92							
		S	1.21	1.10	0.95	0.86	0.64	1.76	1.63	1.41	1.24	0.90	2.48	2.06	1.45	2.66	2.44	2.01	1.67	1.20	3.33	2.85	2.02	3.85	3.36	2.78	2.33	1.74	4.26	4.08	3.89	3.25	2.61							
9	9	T	1.16	1.05	0.93	0.83	0.64	1.60	1.55	1.38	1.19	0.96	2.31	1.97	1.39	2.27	2.12	1.82	1.52	1.24	2.83	2.50	1.85	3.25	2.79	2.31	1.91	1.47	3.75	3.50	3.25	2.68	2.10							
		S	1.09	0.99	0.86	0.78	0.58	1.51	1.43	1.24	1.09	0.81	2.15	1.79	1.27	2.19	2.04	1.67	1.39	1.01	2.75	2.38	1.71	3.09	2.70	2.22	1.83	1.35	3.29	3.21	3.12	2.51	1.89							
11	3	T	1.45	1.31	1.16	1.05	0.81	2.71	2.44	2.17	1.91	1.48	3.69	3.12	2.19	4.02	3.73	3.27	2.79	2.28	4.90	4.33	3.21	5.96	5.23	4.45	3.84	3.10	7.01	6.49	5.97	5.25	4.53							
		S	1.24	1.13	0.97	0.88	0.66	2.02	1.82	1.57	1.40	1.02	2.80	2.31	1.62	3.13	2.85	2.36	1.98	1.42	3.89	3.32	2.35	4.61	4.05	3.38	2.87	2.24	5.23	4.95	4.67	4.01	3.35							
11	5	T	1.26	1.13	1.01	0.91	0.71	2.10	1.95	1.73	1.51	1.16	2.92	2.49	1.75	3.08	2.87	2.49	2.10	1.71	3.74	3.32	2.48	4.53	3.93	3.30	2.79	2.16	5.32	4.93	4.54	3.89	3.24							
		S	1.15	1.05	0.91	0.82	0.61	1.78	1.62	1.40	1.24	0.90	2.49	2.06	1.44	2.73	2.50	2.06	1.72	1.23	3.39	2.91	2.06	4.01	3.50	2.91	2.45	1.87	4.49	4.27	4.05	3.44	2.82							
11	7	T	1.06	0.95	0.84	0.76	0.59	1.63	1.53	1.36	1.17	0.90	2.31	1.95	1.37	2.37	2.20	1.90	1.59	1.29	2.96	2.59	1.90	3.46	2.98	2.48	2.08	1.57	4.07	3.77	3.46	2.93	2.39							
		S	1.04	0.95	0.82	0.74	0.56	1.54	1.42	1.23	1.09	0.79	2.16	1.80	1.27	2.29	2.11	1.74	1.45	1.04	2.86	2.46	1.76	3.28	2.87	2.38	1.99	1.45	3.58	3.45	3.31	2.74	2.16							
11	9	T	0.92	0.82	0.73	0.65	0.50	1.29	1.23	1.11	0.98	0.79	1.86	1.58	1.12	1.81	1.70	1.45	1.21	1.00	2.27	2.01	1.48	2.59	2.22	1.83	1.52	1.23	2.93	2.76	2.58	2.09	1.60							
		S	0.92	0.82	0.73	0.65	0.50	1.27	1.22	1.07	0.95	0.72	1.81	1.53	1.10	1.78	1.67	1.36	1.13	0.84	2.23	1.95	1.42	2.46	2.14	1.76	1.46	1.14	2.57	2.53	2.48	1.97	1.45							
13	3	T	1.13	1.02	0.91	0.82	0.64	2.07	1.88	1.67	1.47	1.14	2.83	2.39	1.69	3.09	2.86	2.50	2.14	1.75	3.77	3.32	2.46	4.60	4.04	3.43	2.96	2.36	5.47	5.04	4.61	4.06	3.51							
		S	1.10	1.00	0.86	0.78	0.58	1.78	1.60	1.38	1.23	0.89	2.46	2.03	1.42	2.76	2.51	2.08	1.74	1.25	3.43	2.92	2.06	4.07	3.58	2.98	2.54	1.97	4.61	4.37	4.12	3.55	2.97							
13	5	T	0.95	0.85	0.76	0.68	0.53	1.62	1.48	1.32	1.15	0.88	2.28	1.91	1.33	2.45	2.25	1.95	1.64	1.33	3.03	2.65	1.93	3.62	3.13	2.62	2.22	1.73	4.35	3.99	3.62	3.13	2.63							
		S	0.95	0.85	0.76	0.68	0.53	1.55	1.41	1.22	1.09	0.79	1.86	1.56	1.09	2.37	2.17	1.79	1.50	1.07	2.94	2.53	1.79	3.43	3.01	2.50	2.11	1.60	3.82	3.65	3.47	2.93	2.38							
13	7	T	0.82	0.74	0.66	0.59	0.45	1.31	1.21	1.08	0.93	0.73	1.86	1.56	1.09	1.91	1.78	1.52	1.28	1.04	2.39	2.09	1.53	2.79	2.40	1.99	1.66	1.22	3.25	3.02	2.78	2.32	1.86							
		S	0.82	0.74	0.66	0.59	0.45	1.29	1.21	1.06	0.93	0.69	1.82	1.53	1.09	1.88	1.75	1.43	1.20	0.87	2.34	2.03	1.47	2.65	2.32	1.92	1.59	1.13	2.85	2.76	2.67	2.18	1.68							
13	9	T	0.72	0.64	0.57	0.51	0.39	1.02	0.99	0.90	0.80	0.64	1.46	1.24	0.91	1.36	1.29	1.09	0.93	0.81	1.72	1.53	1.14	1.91	1.62	1.37	1.21	1.00	2.09	2.00	1.90	1.58	1.25							
		S	0.72	0.64	0.57	0.51	0.39	1.01	0.99	0.90	0.80	0.61	1.																											

Heating capacities, two-pipe changeover coil

Total heating capacity, kW		42N_S 15-E 19					42N_S 20-E 29					42N_S 26					42N_S 30-E 39					42N_S 42					42N_S 45-E 49					42N_S 65-E69				
		Water flow rate l/h	ΔT K	Fan speed					Fan speed					Fan speed					Fan speed					Fan speed					Fan speed							
				1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5			
200	0.06	20	1.37	1.26	1.12	0.97	0.80	1.55	1.51	1.42	1.14	1.07	1.75	1.71	1.42	2.08	2.08	1.90	1.65	2.52	2.34	2.03	2.80	2.56	2.47	2.30	1.97	2.94	2.86	2.77	2.65	2.52				
480	0.13	20	1.50	1.37	1.21	1.05	0.84	2.13	1.97	1.78	1.50	1.26	2.61	2.58	1.79	3.29	3.06	2.75	2.41	3.74	3.37	2.87	4.44	3.96	3.60	3.22	2.69	4.89	4.65	4.40	4.07	3.73				
760	0.21	20	1.54	1.40	1.23	1.05	0.84	2.33	2.11	1.89	1.61	1.32	2.96	2.62	1.90	3.63	3.34	2.97	2.56	4.22	3.76	3.17	5.12	4.51	4.01	3.53	2.92	5.78	5.43	5.08	4.63	4.17				
1040	0.29	20	1.55	1.41	1.24	1.06	0.85	2.44	2.18	1.94	1.66	1.34	3.15	2.75	1.96	3.81	3.48	3.08	2.63	4.49	3.97	2.98	5.49	4.80	4.22	3.68	3.03	6.27	5.86	5.44	4.92	4.40				
1320	0.37	20	1.56	1.42	1.25	1.06	0.85	2.51	2.23	1.97	1.70	1.36	3.28	2.83	1.99	3.92	3.57	3.14	2.68	4.65	4.10	3.04	5.72	4.99	4.34	3.78	3.10	6.59	6.13	5.66	5.10	4.54				
1600	0.44	20	1.57	1.42	1.25	1.07	0.85	2.55	2.26	2.00	1.72	1.37	3.37	2.89	2.01	4.00	3.63	3.19	2.71	4.77	4.19	3.08	5.87	5.11	4.43	3.83	3.14	6.81	6.32	5.82	5.23	4.63				
1880	0.52	20	1.57	1.43	1.25	1.07	0.85	2.58	2.28	2.01	1.74	1.37	3.43	2.93	2.04	4.05	3.68	3.22	2.73	4.85	4.25	3.11	5.99	5.20	4.49	3.88	3.17	6.97	6.46	5.94	5.32	4.70				
2160	0.60	20	1.58	1.43	1.26	1.07	0.85	2.61	2.30	2.02	1.75	1.38	3.49	2.96	2.04	4.10	3.71	3.24	2.74	4.92	4.30	3.13	6.08	5.27	4.53	3.91	3.19	7.10	6.56	6.02	5.39	4.75				
2440	0.68	20	1.58	1.43	1.26	1.07	0.86	2.63	2.31	2.03	1.76	1.38	3.53	2.98	2.05	4.13	3.74	3.26	2.76	4.97	4.34	3.15	6.15	5.33	4.57	3.93	3.21	7.20	6.65	6.09	5.44	4.79				
2720	0.76	20	1.58	1.43	1.26	1.07	0.86	2.65	2.32	2.04	1.77	1.38	3.56	3.00	2.06	4.16	3.76	3.28	2.77	5.01	4.37	3.16	6.21	5.37	4.60	3.95	3.23	7.29	6.72	6.15	5.49	4.82				
3000	0.83	20	1.58	1.43	1.26	1.07	0.86	2.66	2.33	2.05	1.78	1.39	3.59	3.02	2.06	4.18	3.77	3.29	2.77	5.04	4.40	3.17	6.25	5.41	4.62	3.97	3.24	7.36	6.78	6.20	5.53	4.85				
200	0.06	30	2.06	1.89	1.69	1.46	1.20	2.41	2.34	2.18	1.78	1.64	2.73	2.65	2.19	3.42	3.18	2.90	2.52	3.86	3.59	3.10	4.30	3.94	3.78	3.53	3.03	4.51	4.39	4.26	4.07	3.87				
480	0.13	30	2.25	2.05	1.81	1.55	1.25	3.25	2.99	2.70	2.28	1.91	4.00	3.63	2.72	4.99	4.64	4.17	3.64	5.69	5.13	4.04	6.78	6.04	5.49	4.90	4.10	7.47	7.09	6.71	6.20	5.68				
760	0.21	30	2.31	2.10	1.85	1.58	1.27	3.55	3.20	2.86	2.44	1.99	4.52	3.99	2.88	5.50	5.05	4.49	3.87	6.41	5.71	4.34	7.77	6.85	6.08	5.35	4.43	8.78	8.24	7.70	7.01	6.32				
1040	0.29	30	2.33	2.12	1.86	1.59	1.27	3.70	3.30	2.93	2.52	2.02	4.80	4.17	2.96	5.77	5.27	4.65	3.97	6.80	6.01	4.49	8.31	7.28	6.38	5.57	4.58	9.51	8.88	8.24	7.45	6.65				
1320	0.37	30	2.35	2.13	1.87	1.60	1.28	3.80	3.37	2.98	2.57	2.04	4.99	4.29	3.00	5.93	5.40	4.74	4.04	7.04	6.20	4.58	8.65	7.55	6.57	5.70	4.68	9.98	9.28	8.57	7.72	6.86				
1600	0.44	30	2.36	2.14	1.88	1.60	1.28	3.86	3.41	3.01	2.60	2.06	5.11	4.37	3.03	6.04	5.49	4.81	4.08	7.21	6.33	4.64	8.89	7.73	6.69	5.78	4.74	10.31	9.56	8.80	7.90	7.00				
1880	0.52	30	2.37	2.14	1.88	1.61	1.28	3.91	3.44	3.03	2.63	2.07	5.21	4.43	3.06	6.12	5.55	4.85	4.11	7.32	6.42	4.69	9.06	7.86	6.77	5.85	4.78	10.55	9.76	8.97	8.03	7.09				
2160	0.60	30	2.37	2.15	1.89	1.61	1.28	3.94	3.46	3.05	2.64	2.07	5.28	4.47	3.07	6.18	5.60	4.89	4.13	7.43	6.49	4.72	9.18	7.97	6.84	5.89	4.82	10.74	9.92	9.10	8.14	7.17				
2440	0.68	30	2.38	2.15	1.89	1.61	1.29	3.97	3.48	3.06	2.66	2.08	5.34	4.50	3.09	6.23	5.63	4.92	4.15	7.50	6.55	4.74	9.29	8.04	6.89	5.93	4.84	10.89	10.05	9.20	8.21	7.22				
2720	0.76	30	2.38	2.15	1.89	1.61	1.29	3.99	3.50	3.07	2.67	2.08	5.39	4.53	3.10	6.27	5.66	4.94	4.16	7.56	6.59	4.76	9.37	8.11	6.93	5.96	4.86	11.01	10.15	9.29	8.28	7.27				
3000	0.83	30	2.38	2.16	1.89	1.61	1.29	4.01	3.51	3.08	2.68	2.09	5.43	4.55	3.11	6.30	5.69	4.95	4.17	7.61	6.63	4.78	9.44	8.16	6.97	5.98	4.88	11.11	10.24	9.36	8.34	7.31				
200	0.06	40	2.75	2.52	2.25	1.95	1.60	3.31	3.19	2.97	2.45	2.22	3.77	3.63	2.98	4.85	4.63	4.31	3.93	5.25	4.89	4.21	5.83	5.36	5.14	4.79	4.13	6.12	5.95	5.78	5.52	5.25				
480	0.13	40	3.01	2.74	2.42	2.08	1.67	4.40	4.03	3.63	3.08	2.57	5.44	4.91	3.66	6.72	6.24	5.61	4.89	7.68	6.92	5.44	9.15	8.16	7.39	6.60	5.52	10.10	9.58	9.06	8.36	7.65				
760	0.21	40	3.08	2.80	2.47	2.11	1.69	4.78	4.30	3.84	3.29	2.67	6.11	5.37	3.86	7.40	6.79	6.03	5.18	8.63	7.68	5.83	10.46	9.22	8.17	7.18	5.94	11.83	11.10	10.37	9.44	8.50				
1040	0.29	40	3.12	2.83	2.49	2.13	1.70	4.98	4.44	3.94	3.39	2.71	6.48	5.62	3.97	7.75	7.07	6.23	5.32	9.14	8.08	6.03	11.18	9.79	8.56	7.46	6.15	12.80	11.94	11.08	10.01	8.94				
1320	0.37	40	3.14	2.84	2.50	2.13	1.71	5.10	4.52	3.99	3.45	2.74	6.72	5.77	4.03	7.96	7.24	6.36	5.41	9.46	8.33	6.14	11.62	10.14	8.81	7.64	6.27	13.43	12.48	11.52	10.37	9.21				
1600	0.44	40	3.15	2.86	2.51	2.14	1.71	5.18	4.57	4.03	3.49	2.75	6.89	5.87	4.07	8.10	7.35	6.44	5.46	9.68	8.49	6.22	11.93	10.38	8.96	7.75	6.35	13.86	12.84	11.82	10.60	9.38				
1880	0.52	40	3.16	2.86	2.52	2.15	1.71	5.24	4.61	4.06	3.52	2.76	7.01	5.94	4.09	8.21	7.43	6.50	5.50	9.84	8.62	6.28	12.15	10.56	9.08	7.83	6.41	14.18	13.11	12.04	10.78	9.51				
2160	0.60	40	3.17	2.87	2.52	2.15	1.71	5.29	4.64	4.08	3.54	2.77	7.10	6.00	4.12	8.29	7.50	6.54	5.53	9.96	8.71	6.32	12.32	10.68	9.16	7.89	6.45	14.42	13.32	12.21	10.91	9.60				
2440	0.68	40	3.17	2.87	2.52	2.15	1.72	5.32	4.66	4.10	3.56	2.78	7.18	6.04	4.13	8.35	7.54	6.58	5.55	10.06	8.78	6.35	12.46	10.78	9.23	7.94	6.48	14.62	13.49	12.35	11.02	9.68				
2720	0.76	40	3.18	2.88	2.53	2.15	1.72	5.35	4.68	4.11	3.57	2.79	7.24	6.08	4.15	8.40	7.58	6.61	5.57	10.13	8.84	6.38	12.57	10.87	9.29	7.97	6.51	14.78	13.62	12.45	11.10	9.74				
3000	0.83	40	3.18	2.88	2.53	2.15	1.72	5.38	4.70	4.12	3.59	2.79	7.29	6.11	4.16	8.44	7.61	6.63	5.58	10.20	8.89	6.40	12.65	10.94	9.33	8.00	6.53	14.91	13.73	12.54	11.17	9.79				

EAT
 Entering air temperature
 EWT
 Entering water temperature
 ΔT
 Available temperature difference - EWT-EAT

Heating capacities, two-pipe changeover coil

Total heating capacity, kW																																									
Water flow rate l/h	ΔT K	42N_S 15-E 19					42N_S 20-E 29					42N_S 26					42N_S 30-E 39					42N_S 42					42N_S 45-E 49					42N_S 65-E69									
		Fan speed					Fan speed					Fan speed					Fan speed					Fan speed					Fan speed					Fan speed									
		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
200	0.06	50	3.44	3.16	2.82	2.44	2.00	4.24	4.06	3.77	3.13	2.82	4.84	4.64	3.79	5.87	5.46	4.97	4.31	6.66	6.21	5.33	7.39	6.81	6.51	6.07	5.24	7.75	7.54	7.32	6.99	6.65									
400	0.13	50	3.76	3.43	3.03	2.60	2.09	5.57	5.08	4.58	3.89	3.23	6.90	6.21	4.61	8.47	7.86	7.06	6.15	9.69	8.74	6.84	11.54	10.30	9.31	8.31	6.95	12.75	12.09	11.43	10.54	9.65									
760	0.21	50	3.86	3.50	3.09	2.64	2.12	6.03	5.41	4.82	4.14	3.35	7.74	6.78	4.86	9.31	8.54	7.58	6.51	10.88	9.68	7.33	13.18	11.62	10.28	9.04	7.47	14.92	13.99	13.06	11.88	10.70									
1040	0.29	50	3.90	3.54	3.12	2.66	2.13	6.27	5.58	4.94	4.27	3.40	8.19	7.08	4.98	9.74	8.89	7.83	6.68	11.51	10.17	7.57	14.07	12.33	10.78	9.38	7.73	16.13	15.04	13.94	12.59	11.24									
1320	0.37	50	3.93	3.56	3.13	2.67	2.14	6.42	5.68	5.02	4.34	3.43	8.48	7.26	5.05	10.00	9.10	7.98	6.78	11.90	10.47	7.71	14.63	12.76	11.06	9.59	7.87	16.91	15.70	14.49	13.03	11.56									
1600	0.44	50	3.94	3.58	3.14	2.68	2.14	6.52	5.74	5.06	4.39	3.45	8.63	7.38	5.10	10.18	9.23	8.08	6.85	12.17	10.68	7.81	15.00	13.06	11.26	9.73	7.97	17.44	16.16	14.87	13.33	11.78									
1880	0.52	50	3.96	3.59	3.15	2.69	2.14	6.59	5.79	5.10	4.42	3.47	8.83	7.47	5.14	10.31	9.33	8.16	6.90	12.37	10.83	7.88	15.28	13.26	11.40	9.83	8.04	17.84	16.49	15.14	13.54	11.94									
2160	0.60	50	3.97	3.59	3.16	2.69	2.15	6.65	5.82	5.12	4.45	3.48	8.94	7.54	5.16	10.40	9.41	8.21	6.93	12.52	10.94	7.93	15.49	13.42	11.50	9.90	8.09	18.14	16.75	15.35	13.71	12.06									
2440	0.68	50	3.97	3.60	3.16	2.69	2.15	6.69	5.85	5.14	4.47	3.48	9.03	7.59	5.18	10.48	9.47	8.25	6.96	12.63	11.03	7.97	15.65	13.55	11.59	9.96	8.13	18.38	16.95	15.51	13.83	12.15									
2720	0.76	50	3.98	3.60	3.16	2.70	2.15	6.72	5.87	5.16	4.49	3.49	9.10	7.63	5.20	10.54	9.51	8.29	6.98	12.73	11.10	8.00	15.78	13.65	11.65	10.00	8.16	18.57	17.11	15.64	13.93	12.22									
3000	0.83	50	3.98	3.61	3.17	2.70	2.15	6.75	5.89	5.17	4.50	3.50	9.16	7.67	5.21	10.59	9.55	8.31	7.00	12.81	11.16	8.02	15.89	13.73	11.71	10.04	8.19	18.74	17.24	15.74	14.01	12.28									
480	0.13	60	4.13	3.79	3.39	2.93	2.41	5.18	4.95	4.58	3.83	3.42	5.93	5.67	4.60	7.46	7.13	6.62	6.02	8.09	7.55	6.46	8.97	8.28	7.90	7.36	6.38	9.41	9.15	8.89	8.49	8.08									
800	0.16	60	4.52	4.12	3.64	3.12	2.52	6.75	6.15	5.53	4.72	3.90	8.39	7.53	5.57	10.24	9.50	8.52	7.42	11.73	10.57	8.26	13.95	12.46	11.25	10.03	8.40	15.42	14.62	13.82	12.74	11.66									
1200	0.21	60	4.64	4.21	3.71	3.17	2.55	7.30	6.54	5.82	5.01	4.03	9.38	8.20	5.86	11.24	10.31	9.14	7.85	13.15	11.69	8.84	15.93	14.05	12.40	10.91	9.02	18.03	16.91	15.78	14.35	12.92									
1600	0.29	60	4.69	4.26	3.75	3.20	2.56	7.58	6.73	5.96	5.15	4.09	9.92	8.55	6.01	11.75	10.72	9.44	8.05	13.90	12.28	9.12	16.99	14.88	13.00	11.31	9.31	19.49	18.17	16.84	15.21	13.58									
2000	0.37	60	4.72	4.28	3.76	3.21	2.57	7.75	6.84	6.04	5.23	4.13	10.26	8.76	6.09	12.06	10.96	9.62	8.17	14.37	12.64	9.29	17.65	15.39	13.34	11.55	9.49	20.41	18.95	17.49	15.72	13.94									
2400	0.44	60	4.74	4.30	3.78	3.22	2.57	7.87	6.92	6.10	5.29	4.15	10.49	8.90	6.15	12.27	11.13	9.74	8.24	14.68	12.88	9.40	18.10	15.74	13.57	11.72	9.60	21.05	19.49	17.93	16.07	14.20									
2800	0.52	60	4.76	4.31	3.79	3.23	2.58	7.95	6.97	6.14	5.33	4.17	10.67	9.01	6.19	12.42	11.24	9.82	8.30	14.91	13.05	9.48	18.44	15.99	13.73	11.83	9.68	21.52	19.90	18.27	16.33	14.39									
3200	0.60	60	4.77	4.32	3.79	3.23	2.58	8.01	7.01	6.16	5.36	4.18	10.80	9.09	6.22	12.54	11.33	9.89	8.34	15.09	13.18	9.54	18.67	16.18	13.86	11.92	9.74	21.88	20.19	18.50	16.52	14.53									
3600	0.68	60	4.77	4.32	3.80	3.24	2.58	8.06	7.04	6.19	5.38	4.19	10.90	9.15	6.24	12.62	11.40	9.93	8.37	15.23	13.29	9.59	18.86	16.33	13.96	11.99	9.79	22.18	20.44	18.69	16.66	14.63									
4000	0.76	60	4.78	4.33	3.80	3.24	2.58	8.10	7.07	6.21	5.40	4.20	10.99	9.20	6.26	12.70	11.45	9.97	8.40	15.34	13.37	9.63	19.02	16.45	14.03	12.04	9.82	22.41	20.63	18.85	16.79	14.72									
4400	0.83	60	4.79	4.33	3.81	3.24	2.59	8.13	7.09	6.22	5.42	4.20	11.06	9.24	6.27	12.75	11.50	10.01	8.42	15.43	13.44	9.66	19.14	16.55	14.10	12.08	9.85	22.58	20.78	18.97	16.88	14.79									
4800	0.06	70	4.82	4.43	3.95	3.43	2.81	6.12	5.83	5.40	4.52	4.03	7.03	6.70	5.42	8.78	8.38	7.79	7.07	9.52	8.89	7.60	10.56	9.76	9.31	8.67	7.53	11.08	10.78	10.47	9.99	9.51									
8000	0.13	70	5.28	4.81	4.25	3.65	2.94	7.94	7.22	6.49	5.55	4.57	9.90	8.86	6.53	12.03	11.14	9.99	8.70	13.78	12.42	9.69	16.38	14.64	13.20	11.76	9.86	18.11	17.17	16.23	14.96	13.68									
12000	0.21	70	5.42	4.92	4.34	3.71	2.98	8.57	7.67	6.82	5.88	4.72	11.04	9.63	6.87	13.19	12.09	10.71	9.19	15.43	13.72	10.36	18.69	16.49	14.54	12.76	10.57	21.17	19.85	18.52	16.84	15.15									
16000	0.29	70	5.48	4.97	4.38	3.74	2.99	8.89	7.88	6.98	6.04	4.79	11.66	10.03	7.03	13.78	12.56	11.06	9.42	16.30	14.40	10.69	19.93	17.46	15.22	13.24	10.91	22.87	21.31	19.75	17.83	15.91									
20000	0.37	70	5.52	5.00	4.40	3.75	3.00	9.09	8.01	7.07	6.13	4.83	12.05	10.28	7.13	14.14	12.84	11.26	9.56	16.84	14.81	10.88	20.69	18.07	15.62	13.53	11.11	23.95	22.23	20.50	18.42	16.94									
24000	0.44	70	5.54	5.02	4.41	3.77	3.01	9.22	8.10	7.14	6.20	4.86	12.32	10.44	7.19	14.38	13.03	11.40	9.65	17.21	15.09	11.01	21.23	18.45	15.89	13.72	11.24	24.69	22.87	21.04	18.84	16.64									
28000	0.52	70	5.56	5.04	4.43	3.77	3.01	9.32	8.16	7.18	6.24	4.87	12.52	10.56	7.24	14.55	13.16	11.50	9.71	17.48	15.29	11.10	21.58	18.74	16.08	13.85	11.33	25.23	23.31	21.39	19.12	16.85									
32000	0.60	70	5.57	5.05	4.43	3.78	3.02	9.39	8.21	7.21	6.27	4.89	12.67	10.65	7.27	14.68	13.26	11.57	9.76	17.68	15.44	11.17	21.87	18.95	16.22	13.95	11.40	25.65	23.66	21.67	19.34	17.01									
36000	0.68	70	5.58	5.05	4.44	3.78	3.02	9.44	8.25	7.24	6.30	4.90	12.78	10.72	7.30	14.78	13.34	11.62	9.79	17.84	15.56	11.22	22.09	19.13	16.34	14.02	11.45	25.99	23.94	21.89	19.51	17.13									
40000	0.76	70	5.59	5.06	4.44	3.79	3.02	9.49	8.27	7.26	6.32	4.91	12.88	10.77	7.32	14.86	13.41	11.67	9.82	17.97	15.66	11.26	22.27	19.26	16.42	14.09	11.49	26.24	24.16	22.07	19.65	17.23									
44000	0.83	70	5.59	5.07	4.45	3.79	3.02	9.52	8.30	7.28	6.34	4.91	12.96	10.82	7.34	14.93	13.46	11.71	9.85	18.07	15.74	11.30	22.42	19.37	16.50	14.14	11.53	26.46	24.34	22.22	19.77	17.31									

EAT
 Entering air temperature
 EWT
 Entering water temperature
 ΔT
 Available temperature difference - EWT - EAT

Cooling capacities, four-pipe coil

EWT °C	ΔT K	42N_S 15-E 19					42N_S 20-E 29					42N_S 26					42N_S 30-E 39					42N_S 42					42N_S 45-E 49					42N_S 65-E69				
		Fan speed					Fan speed					Fan speed					Fan speed					Fan speed					Fan speed									
Entering air temperature 17°C wb / 23°C db		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
5	3	T 1.62	1.48	1.27	1.11	0.79	2.56	2.31	2.04	1.80	1.43	3.34	2.89	2.09	4.02	3.66	3.26	2.83	2.33	4.66	4.11	3.16	6.08	5.31	4.63	3.98	3.31	7.01	6.51	6.00	5.40	4.80				
		S 1.21	1.15	0.98	0.86	0.63	1.76	1.62	1.44	1.26	1.02	2.36	1.98	1.43	2.71	2.48	2.22	1.94	1.56	3.25	2.84	2.14	4.13	3.57	3.14	2.61	2.17	4.87	4.48	4.09	3.67	3.24				
5	5	T 1.39	1.29	1.10	0.97	0.71	1.86	1.75	1.51	1.31	1.08	2.40	2.09	1.55	2.97	2.73	2.53	2.27	1.87	3.44	3.04	2.44	4.62	4.02	3.63	3.01	2.51	5.25	4.91	4.56	4.16	3.76				
		S 1.10	1.05	0.89	0.79	0.59	1.46	1.37	1.20	1.05	0.86	1.96	1.64	1.20	2.29	2.10	1.91	1.69	1.36	2.74	2.40	1.83	3.54	3.05	2.72	2.22	1.84	4.15	3.83	3.51	3.16	2.81				
5	7	T 1.13	1.07	0.89	0.82	0.62	1.28	1.24	1.07	0.96	0.85	1.66	1.44	1.10	2.06	1.90	1.81	1.69	1.39	2.40	2.11	1.74	3.36	2.85	2.61	2.10	1.76	3.89	3.61	3.32	3.03	2.73				
		S 0.97	0.94	0.79	0.71	0.54	1.17	1.13	0.99	0.87	0.74	1.55	1.31	0.98	1.84	1.69	1.58	1.42	1.14	2.18	1.92	1.51	2.94	2.49	2.25	1.81	1.50	3.45	3.18	2.91	2.63	2.34				
5	9	T 0.90	0.86	0.71	0.66	0.51	1.05	1.02	0.91	0.83	0.72	1.23	1.13	0.84	1.47	1.36	1.33	1.25	1.06	1.69	1.50	1.27	2.48	2.07	1.92	1.51	1.26	2.87	2.66	2.44	2.23	2.01				
		S 0.84	0.82	0.68	0.62	0.48	0.98	0.97	0.87	0.78	0.67	1.18	1.06	0.87	1.36	1.28	1.25	1.18	0.97	1.60	1.42	1.19	2.27	1.90	1.79	1.38	1.16	2.65	2.45	2.25	2.06	1.86				
7	3	T 1.32	1.21	1.04	0.91	0.65	2.03	1.85	1.62	1.42	1.14	2.62	2.28	1.66	3.17	2.90	2.61	2.29	1.89	3.65	3.23	2.53	4.80	4.19	3.70	3.16	2.64	5.50	5.12	4.74	4.29	3.83				
		S 1.06	1.01	0.86	0.75	0.56	1.53	1.41	1.25	1.10	0.88	2.06	1.73	1.24	2.37	2.16	1.94	1.69	1.37	2.84	2.48	1.87	3.62	3.12	2.75	2.28	1.89	4.26	3.92	3.58	3.21	2.83				
7	5	T 1.07	1.01	0.85	0.76	0.57	1.40	1.31	1.13	0.99	0.82	1.82	1.57	1.17	2.24	2.05	1.90	1.71	1.41	2.60	2.29	1.83	3.54	3.06	2.73	2.26	1.89	4.04	3.77	3.50	3.18	2.85				
		S 0.95	0.91	0.77	0.68	0.51	1.24	1.17	1.03	0.89	0.73	1.67	1.40	1.02	1.95	1.79	1.62	1.44	1.16	2.33	2.04	1.56	3.05	2.62	2.32	1.89	1.57	3.57	3.30	3.02	2.71	2.40				
7	7	T 0.85	0.80	0.67	0.61	0.47	1.01	0.97	0.87	0.78	0.68	1.30	1.13	0.89	1.61	1.48	1.39	1.27	1.05	1.88	1.65	1.34	2.63	2.23	2.01	1.63	1.36	3.06	2.83	2.60	2.35	2.10				
		S 0.82	0.79	0.66	0.59	0.45	0.96	0.94	0.85	0.76	0.65	1.25	1.06	0.84	1.49	1.38	1.31	1.20	0.97	1.76	1.55	1.25	2.41	2.04	1.87	1.48	1.24	2.82	2.61	2.39	2.17	1.94				
7	9	T 0.68	0.65	0.53	0.50	0.39	0.85	0.83	0.74	0.67	0.58	0.99	0.92	0.76	1.10	1.04	1.03	0.99	0.86	1.22	1.11	1.00	1.85	1.53	1.44	1.11	0.96	2.13	1.98	1.82	1.67	1.51				
		S 0.68	0.65	0.53	0.50	0.39	0.81	0.81	0.73	0.65	0.57	0.96	0.87	0.73	1.02	0.99	0.99	0.96	0.81	1.15	1.05	0.96	1.72	1.42	1.38	1.03	0.90	2.00	1.86	1.71	1.58	1.44				
9	3	T 1.01	0.93	0.79	0.70	0.51	1.50	1.36	1.20	1.05	0.85	1.96	1.70	1.23	2.37	2.16	1.95	1.72	1.41	2.74	2.42	1.89	3.59	3.09	2.76	2.36	1.98	4.12	3.83	3.54	3.20	2.85				
		S 0.92	0.87	0.74	0.65	0.48	1.30	1.20	1.06	0.93	0.75	1.76	1.47	1.06	2.03	1.85	1.66	1.45	1.16	2.43	2.12	1.60	3.09	2.66	2.35	1.95	1.62	3.64	3.35	3.06	2.74	2.42				
9	5	T 0.80	0.74	0.62	0.56	0.42	1.08	0.99	0.86	0.75	0.63	1.42	1.22	0.88	1.73	1.58	1.44	1.28	1.05	2.03	1.78	1.38	2.75	2.36	2.07	1.73	1.43	3.20	2.96	2.71	2.44	2.16				
		S 0.79	0.74	0.62	0.56	0.42	1.02	0.97	0.85	0.74	0.63	1.36	1.14	0.85	1.60	1.47	1.35	1.21	0.98	1.90	1.67	1.30	2.52	2.15	1.93	1.57	1.31	2.95	2.73	2.50	2.25	2.00				
9	7	T 0.64	0.60	0.50	0.46	0.35	0.81	0.78	0.70	0.63	0.54	0.97	0.88	0.71	1.20	1.11	1.05	0.97	0.81	1.39	1.22	1.01	1.99	1.68	1.52	1.22	1.02	2.31	2.14	1.96	1.78	1.60				
		S 0.64	0.60	0.50	0.46	0.35	0.78	0.78	0.70	0.63	0.54	0.93	0.83	0.69	1.12	1.05	1.02	0.96	0.78	1.31	1.16	0.98	1.85	1.56	1.46	1.13	0.95	2.16	2.00	1.84	1.68	1.52				
9	9	T 0.50	0.48	0.40	0.38	0.29	0.66	0.64	0.57	0.52	0.45	0.77	0.71	0.59	0.83	0.80	0.79	0.76	0.67	0.88	0.83	0.77	1.21	0.99	0.98	0.81	0.74	1.39	1.30	1.20	1.12	1.03				
		S 0.50	0.48	0.40	0.38	0.29	0.63	0.64	0.57	0.52	0.45	0.74	0.67	0.58	0.78	0.76	0.77	0.76	0.65	0.83	0.79	0.75	1.13	0.92	0.94	0.75	0.69	1.30	1.21	1.12	1.05	0.98				
11	3	T 0.72	0.66	0.57	0.50	0.36	1.13	1.01	0.89	0.78	0.62	1.51	1.29	0.91	1.82	1.64	1.45	1.25	1.02	2.13	1.87	1.40	2.76	2.40	2.08	1.78	1.47	3.22	2.98	2.73	2.44	2.15				
		S 0.72	0.66	0.57	0.50	0.36	1.08	1.00	0.88	0.78	0.62	1.45	1.21	0.88	1.68	1.54	1.38	1.21	0.98	2.00	1.76	1.33	2.56	2.21	1.96	1.63	1.35	3.00	2.77	2.53	2.28	2.02				
11	5	T 0.60	0.55	0.47	0.42	0.31	0.81	0.76	0.66	0.59	0.50	1.07	0.92	0.67	1.31	1.20	1.10	0.98	0.80	1.54	1.35	1.06	2.10	1.79	1.58	1.31	1.09	2.45	2.26	2.07	1.86	1.65				
		S 0.60	0.55	0.47	0.42	0.31	0.78	0.76	0.66	0.59	0.50	1.03	0.87	0.66	1.23	1.13	1.07	0.97	0.78	1.45	1.28	1.02	1.96	1.67	1.52	1.22	1.02	2.30	2.12	1.94	1.76	1.57				
11	7	T 0.48	0.45	0.37	0.34	0.26	0.62	0.60	0.54	0.48	0.42	0.72	0.67	0.55	0.80	0.76	0.75	0.71	0.62	0.89	0.80	0.72	1.36	1.12	1.06	0.81	0.70	1.57	1.46	1.34	1.23	1.11				
		S 0.48	0.45	0.37	0.34	0.26	0.59	0.60	0.54	0.48	0.42	0.70	0.64	0.54	0.74	0.72	0.73	0.71	0.61	0.84	0.76	0.70	1.27	1.04	1.01	0.75	0.66	1.47	1.36	1.25	1.16	1.06				
11	9	T 0.36	0.34	0.29	0.27	0.21	0.47	0.46	0.41	0.37	0.33	0.53	0.50	0.42	0.58	0.56	0.56	0.55	0.48	0.61	0.58	0.54	0.73	0.66	0.66	0.56	0.52	0.77	0.75	0.72	0.70	0.68				
		S 0.36	0.34	0.29	0.27	0.21	0.45	0.46	0.41	0.37	0.33	0.52	0.47	0.41	0.54	0.53	0.54	0.54	0.47	0.57	0.55	0.53	0.68	0.61	0.64	0.52	0.48	0.72	0.70	0.68	0.67	0.65				
13	3	T 0.56	0.51	0.43	0.37	0.27	0.87	0.78	0.68	0.60	0.48	1.16	0.99	0.70	1.40	1.26	1.12	0.96	0.79	1.65	1.44	1.08	2.15	1.87	1.62	1.37	1.13	2.50	2.31	2.12	1.90	1.68				
		S 0.56	0.51	0.43	0.37	0.27	0.84	0.78	0.68	0.60	0.48	1.12	0.94	0.69	1.31	1.20	1.09	0.96	0.78	1.56	1.37	1.05	2.01	1.74	1.55	1.27	1.06	2.34	2.17	1.99	1.80	1.60				
13	5	T 0.45	0.41	0.35	0.31	0.23	0.58	0.55	0.50	0.45	0.38	0.72	0.63	0.51	0.90	0.82	0.78	0.71	0.58	1.04	0.92	0.75	1.47	1.24	1.12	0.91	0.76	1.71	1.58	1.45	1.31	1.17				
		S 0.45	0.41	0.35	0.31	0.23	0.56	0.55	0.50	0.45	0.38	0.69	0.60	0.50	0.84	0.78	0.75	0.71	0.57	0.98	0.87	0.72	1.37	1.16	1.08	0.84	0.71	1.60	1.48	1.36	1.24	1.12				
13	7	T 0.32	0.31	0.26	0.24	0.18	0.43	0.42	0.38	0.34	0.30	0.49	0.46	0.38	0.54	0.52	0.51	0.50	0.43	0.57	0.53	0.50	0.70	0.61	0.61	0.52	0.48	0.78	0.74	0.69	0.66	0.63				
		S 0.32	0.31	0.26	0.24	0.18	0.41	0.42	0.38	0.34	0.30	0.48	0.44	0.38	0.50	0.49	0.50	0.50	0.43	0.50	0.51	0.48	0.65	0.57	0.59	0.48	0.45	0.73	0.69	0.64	0.62	0.60				
13	9	T 0.20	0.20	0.17	0.16	0.12	0.25	0.26	0.23	0.21	0.19	0.29	0.27	0.24	0.31	0.30	0.31	0.																		

Cooling capacities, four-pipe coil

EWT °C	ΔT K	42N_S 15-E 19					42N_S 20-E 29					42N_S 26					42N_S 30-E 39					42N_S 42					42N_S 45-E 49					42N_S 65-E 69					
		Fan speed					Fan speed					Fan speed					Fan speed					Fan speed					Fan speed										
Entering air temperature 19°C wb / 25°C db		1	2	3	4	5	1	2	3	4	5	1	2	3	1	2	3	4	5	1	2	3	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
5	3	T	2.02	1.83	1.58	1.37	0.97	3.27	2.92	2.58	2.29	1.82	4.28	3.69	2.65	5.14	4.66	4.13	3.55	2.92	5.98	5.26	4.00	7.75	6.78	5.88	5.06	4.21	8.97	8.32	7.66	8.32	6.08				
		S	1.34	1.27	1.09	0.95	0.70	1.97	1.81	1.61	1.42	1.15	2.64	2.21	1.60	3.04	2.78	2.48	2.16	1.75	3.63	3.18	2.39	4.61	3.99	3.52	2.93	2.44	5.43	5.00	4.57	5.00	3.62				
5	5	T	1.79	1.64	1.41	1.24	0.89	2.61	2.40	2.09	1.83	1.48	3.39	2.94	2.14	4.11	3.78	3.44	3.04	2.49	4.71	4.19	3.33	6.25	5.45	4.86	4.12	3.46	7.15	6.67	6.18	6.67	5.03				
		S	1.23	1.18	1.00	0.88	0.66	1.70	1.58	1.40	1.22	0.99	2.28	1.91	1.39	2.64	2.42	2.20	1.94	1.56	3.13	2.75	2.11	4.03	3.47	3.09	2.56	2.13	4.72	4.36	3.99	4.36	3.19				
5	7	T	1.54	1.44	1.22	1.09	0.81	1.82	1.78	1.51	1.30	1.10	2.31	2.02	1.55	2.91	2.70	2.59	2.40	1.97	3.34	2.97	2.49	4.76	4.06	3.73	2.99	2.51	5.38	5.04	4.70	5.04	3.89				
		S	1.12	1.08	0.91	0.81	0.61	1.39	1.33	1.16	1.00	0.83	1.86	1.56	1.15	2.18	2.00	1.85	1.67	1.34	2.61	2.28	1.78	3.46	2.95	2.65	2.13	1.72	4.05	3.74	3.43	3.74	2.75				
5	9	T	1.26	1.20	1.02	0.92	0.71	1.28	1.27	1.13	1.03	0.92	1.58	1.39	1.16	1.98	1.84	1.81	1.75	1.44	2.28	2.02	1.74	3.32	2.78	2.62	2.04	1.72	3.81	3.55	3.28	3.55	2.75				
		S	1.00	0.97	0.81	0.73	0.56	1.13	1.10	0.99	0.88	0.75	1.46	1.25	0.98	1.74	1.61	1.53	1.40	1.13	2.06	1.81	1.46	2.83	2.39	2.19	1.72	1.44	3.32	3.06	2.80	3.06	2.27				
7	3	T	1.72	1.57	1.35	1.18	0.84	2.74	2.46	2.18	1.93	1.54	3.56	3.08	2.23	4.29	3.90	3.48	3.01	2.48	4.97	4.39	3.37	6.47	5.66	4.94	4.24	3.54	7.46	6.93	6.40	6.93	5.11				
		S	1.20	1.14	0.97	0.85	0.63	1.75	1.61	1.43	1.26	1.01	2.35	1.97	1.42	2.70	2.47	2.21	1.92	1.55	3.23	2.83	2.13	4.11	3.55	3.12	2.60	2.16	4.84	4.46	4.07	4.46	3.22				
7	5	T	1.48	1.37	1.17	1.04	0.75	2.02	1.89	1.64	1.42	1.18	2.60	2.26	1.68	3.23	2.96	2.74	2.45	2.01	3.67	3.29	2.64	4.93	4.29	3.88	3.26	2.72	5.61	5.24	4.87	5.24	4.02				
		S	1.09	1.04	0.88	0.78	0.58	1.47	1.37	1.21	1.05	0.86	1.98	1.65	1.20	2.30	2.10	1.91	1.69	1.36	2.74	2.41	1.84	3.53	3.04	2.71	2.23	1.85	4.15	3.82	3.49	3.82	2.80				
7	7	T	1.21	1.14	0.95	0.87	0.66	1.35	1.32	1.12	0.98	0.87	1.74	1.51	1.15	2.17	2.01	1.92	1.79	1.48	2.50	2.21	1.85	3.56	3.02	2.77	2.23	1.87	4.09	3.81	3.52	3.81	2.89				
		S	0.97	0.94	0.79	0.71	0.54	1.18	1.13	0.98	0.86	0.73	1.58	1.33	0.98	1.85	1.71	1.58	1.42	1.15	2.21	1.94	1.51	2.96	2.51	2.26	1.82	1.51	3.48	3.21	2.93	3.21	2.34				
7	9	T	0.95	0.90	0.75	0.69	0.54	1.05	1.03	0.92	0.83	0.73	1.24	1.14	0.94	1.53	1.42	1.37	1.30	1.08	1.76	1.56	1.32	2.56	2.15	1.99	1.57	1.31	2.97	2.75	2.53	2.75	2.08				
		S	0.83	0.80	0.67	0.61	0.48	0.97	0.96	0.86	0.77	0.66	1.18	1.05	0.86	1.40	1.31	1.27	1.18	0.96	1.65	1.46	1.21	2.32	1.94	1.82	1.41	1.18	2.71	2.51	2.30	2.51	1.89				
9	3	T	1.40	1.29	1.11	0.97	0.69	2.17	1.98	1.74	1.53	1.23	2.80	2.44	1.79	3.39	3.10	2.79	2.44	2.02	3.90	3.46	2.70	5.12	4.48	3.95	3.37	2.83	5.88	5.47	5.06	5.47	4.08				
		S	1.05	1.00	0.85	0.75	0.55	1.53	1.41	1.25	1.10	0.88	2.06	1.72	1.24	2.36	2.16	1.93	1.68	1.36	2.83	2.47	1.86	3.60	3.11	2.73	2.27	1.89	4.25	3.91	3.57	3.91	2.82				
9	5	T	1.15	1.07	0.91	0.81	0.60	1.48	1.39	1.20	1.05	0.87	1.91	1.66	1.23	2.36	2.17	2.01	1.83	1.51	2.74	2.41	1.94	3.70	3.22	2.89	2.39	2.00	4.22	3.94	3.65	3.94	3.01				
		S	0.94	0.90	0.76	0.68	0.51	1.25	1.17	1.02	0.89	0.73	1.68	1.40	1.02	1.95	1.79	1.62	1.44	1.16	2.35	2.05	1.56	3.03	2.61	2.32	1.89	1.57	3.56	3.28	3.00	3.28	2.40				
9	7	T	0.89	0.84	0.70	0.64	0.49	1.03	0.99	0.87	0.79	0.68	1.34	1.16	0.89	1.66	1.53	1.43	1.32	1.09	1.93	1.70	1.38	2.70	2.29	2.07	1.68	1.40	3.14	2.91	2.67	2.91	2.16				
		S	0.81	0.78	0.66	0.59	0.45	0.97	0.95	0.84	0.75	0.64	1.27	1.08	0.83	1.51	1.40	1.32	1.20	0.97	1.79	1.58	1.27	2.44	2.07	1.89	1.50	1.26	2.86	2.64	2.42	2.64	1.96				
9	9	T	0.70	0.67	0.55	0.51	0.40	0.85	0.83	0.74	0.67	0.59	0.99	0.92	0.76	1.12	1.06	1.04	1.00	0.86	1.28	1.13	1.01	1.91	1.59	1.49	1.15	0.98	2.21	2.05	1.88	2.05	1.56				
		S	0.69	0.67	0.55	0.51	0.40	0.81	0.80	0.72	0.65	0.56	0.96	0.87	0.72	1.04	1.00	1.00	0.95	0.80	1.21	1.08	0.96	1.78	1.47	1.41	1.07	0.91	2.07	1.92	1.76	1.92	1.47				
11	3	T	1.07	0.99	0.84	0.75	0.54	1.59	1.45	1.27	1.11	0.91	2.05	1.79	1.30	2.48	2.27	2.06	1.83	1.51	2.85	2.53	2.00	3.75	3.28	2.91	2.48	2.09	4.30	4.01	3.71	4.01	3.01				
		S	0.91	0.86	0.74	0.65	0.48	1.30	1.20	1.06	0.93	0.75	1.75	1.47	1.05	2.01	1.84	1.65	1.44	1.16	2.41	2.11	1.59	3.08	2.65	2.34	1.94	1.61	3.62	3.34	3.05	3.34	2.41				
11	5	T	0.83	0.77	0.65	0.59	0.44	1.10	1.02	0.88	0.77	0.64	1.45	1.24	0.91	1.77	1.61	1.47	1.32	1.08	2.07	1.81	1.42	2.80	2.40	2.12	1.76	1.46	3.24	3.01	2.77	3.01	2.21				
		S	0.79	0.75	0.63	0.56	0.43	1.03	0.98	0.86	0.75	0.62	1.37	1.15	0.85	1.61	1.48	1.36	1.21	0.97	1.92	1.68	1.31	2.54	2.17	1.94	1.58	1.31	2.96	2.74	2.51	2.74	2.01				
11	7	T	0.66	0.61	0.51	0.47	0.36	0.81	0.78	0.70	0.63	0.54	0.99	0.88	0.71	1.23	1.14	1.08	0.99	0.82	1.43	1.26	1.04	2.03	1.72	1.56	1.25	1.04	2.36	2.19	2.01	2.19	1.63				
		S	0.66	0.61	0.51	0.47	0.36	0.78	0.77	0.69	0.62	0.54	0.95	0.83	0.69	1.15	1.08	1.04	0.96	0.78	1.35	1.20	0.99	1.90	1.59	1.48	1.16	0.97	2.21	2.05	1.88	2.05	1.54				
11	9	T	0.51	0.49	0.41	0.38	0.29	0.66	0.64	0.57	0.52	0.45	0.77	0.71	0.59	0.83	0.80	0.79	0.76	0.67	0.88	0.83	0.77	1.27	1.03	1.01	0.81	0.74	1.46	1.36	1.26	1.36	1.07				
		S	0.51	0.49	0.41	0.38	0.29	0.63	0.64	0.57	0.52	0.45	0.74	0.67	0.57	0.78	0.76	0.77	0.75	0.64	0.84	0.79	0.75	1.19	0.96	0.97	0.75	0.69	1.37	1.28	1.18	1.28	1.02				
13	3	T	0.75	0.69	0.59	0.52	0.38	1.15	1.03	0.90	0.79	0.64	1.53	1.30	0.92	1.84	1.66	1.48	1.29	1.06	2.15	1.88	1.43	2.79	2.43	2.11	1.81	1.49	3.24	3.00	2.75	3.00	2.18				
		S	0.75	0.69	0.59	0.52	0.38	1.08	1.00	0.88	0.78	0.63	1.45	1.21	0.88	1.68	1.54	1.38	1.21	0.97	2.00	1.76	1.33	2.56	2.21	1.96	1.63	1.35	3.00	2.77	2.53	2.77	2.02				
13	5	T	0.61	0.56	0.47	0.42	0.31	0.83	0.77	0.66	0.59	0.50	1.09	0.93	0.68	1.33	1.21	1.11	0.99	0.81	1.56	1.37	1.07	2.13	1.82	1.60	1.33	1.10	2.49	2.30	2.10	2.30	1.67				
		S	0.61	0.56	0.47	0.42	0.31	0.80	0.77	0.66	0.59	0.50	1.05	0.89	0.67	1.24	1.15	1.07	0.97	0.79	1.48	1.30	1.03	1.98	1.69	1.53	1.23	1.03	2.33	2.15	1.96	2.15	1.59				
13	7	T	0.48	0.45	0.37	0.34	0.26	0.62	0.60	0.53	0.48	0.42	0.72	0.67	0.55	0.82	0.77	0.75	0.71	0.62	0.94	0.83	0.73	1.40	1.16	1.09	0.84	0.71	1.62	1.50	1.38	1.50	1.14				
		S	0.48	0.45	0.37	0.34	0.26	0.59	0.60	0.53	0.48	0.42	0.70	0.63	0.54	0.76	0.73	0.73	0.71	0.61	0.88	0.79	0.70	1.31	1.08	1.04	0.78	0.67	1.52	1.41	1.29	1.41	1.09				
13	9	T	0.35	0.34	0.29	0.27	0.21	0.46	0.46	0.41	0.37	0.33	0.53	0.50	0.42	0.58	0.56	0.56	0.54	0.48	0.61	0.58	0.54	0.73	0.66	0.66	0.56	0.52	0.77	0.75	0.73	0.75	0.68				
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Cooling capacities, four-pipe coil

EWT °C	ΔT K	42N_S 15-E 19					42N_S 20-E 29					42N_S 26					42N_S 30-E 39					42N_S 42					42N_S 45-E 49					42N_S 65-E 69							
		Fan speed					Fan speed					Fan speed					Fan speed					Fan speed					Fan speed					Fan speed							
Entering air temperature 19°C wb / 27°C db		1	2	3	4	5	1	2	3	4	5	1	2	3	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
5	3	T	2.01	1.83	1.57	1.36	0.96	3.25	2.90	2.57	2.28	1.81	4.26	3.67	2.63	5.12	4.64	4.11	3.54	2.90	5.95	5.24	3.98	7.72	6.75	5.85	5.04	4.19	8.93	8.28	7.63	6.84	6.05						
		S	1.50	1.42	1.21	1.06	0.78	2.22	2.03	1.81	1.59	1.28	2.99	2.50	1.80	3.43	3.13	2.79	2.42	1.95	4.12	3.60	2.68	5.22	4.51	3.95	3.30	2.73	6.17	5.67	5.17	4.63	4.08						
5	5	T	1.78	1.64	1.40	1.23	0.89	2.59	2.39	2.07	1.82	1.48	3.37	2.92	2.13	4.09	3.75	3.43	3.02	2.48	4.68	4.17	3.31	6.21	5.41	4.83	4.10	3.44	7.11	6.63	6.14	5.57	5.00						
		S	1.39	1.33	1.13	0.99	0.74	1.94	1.80	1.59	1.39	1.13	2.63	2.19	1.58	3.03	2.77	2.50	2.19	1.76	3.61	3.17	2.40	4.63	3.99	3.53	2.92	2.43	5.45	5.02	4.58	4.11	3.64						
5	7	T	1.54	1.43	1.21	1.09	0.80	1.93	1.83	1.57	1.36	1.14	2.49	2.16	1.62	3.09	2.83	2.64	2.41	1.99	3.57	3.16	2.55	4.92	4.23	3.81	3.13	2.61	5.61	5.24	4.86	4.41	3.96						
		S	1.28	1.23	1.04	0.92	0.69	1.65	1.56	1.36	1.19	0.97	2.22	1.86	1.36	2.59	2.37	2.17	1.93	1.55	3.11	2.71	2.08	4.07	3.48	3.10	2.52	2.09	4.77	4.40	4.03	3.62	3.21						
5	9	T	1.28	1.20	1.00	0.92	0.71	1.48	1.41	1.24	1.12	0.98	1.92	1.66	1.27	2.37	2.18	2.05	1.90	1.57	2.76	2.43	1.97	3.85	3.27	2.95	2.40	2.00	4.48	4.15	3.81	3.45	3.09						
		S	1.14	1.11	0.93	0.84	0.64	1.38	1.34	1.18	1.05	0.89	1.82	1.54	1.18	2.15	1.99	1.86	1.69	1.36	2.56	2.25	1.79	3.46	2.93	2.67	2.13	1.78	4.06	3.74	3.42	3.09	2.76						
7	3	T	1.71	1.56	1.34	1.17	0.83	2.72	2.45	2.17	1.92	1.53	3.54	3.07	2.22	4.27	3.88	3.46	3.00	2.47	4.94	4.36	3.35	6.44	5.63	4.92	4.22	3.52	7.43	6.90	6.37	5.73	5.09						
		S	1.36	1.29	1.10	0.96	0.70	2.00	1.83	1.63	1.43	1.15	2.70	2.25	1.62	3.10	2.82	2.51	2.18	1.75	3.72	3.24	2.42	4.72	4.07	3.57	2.97	2.46	5.58	5.13	4.67	4.18	3.68						
7	5	T	1.47	1.36	1.16	1.03	0.75	2.06	1.91	1.66	1.45	1.19	2.68	2.32	1.70	3.29	3.01	2.75	2.45	2.01	3.78	3.36	2.65	5.00	4.36	3.90	3.30	2.75	5.73	5.34	4.94	4.49	4.04						
		S	1.25	1.19	1.01	0.89	0.66	1.72	1.60	1.41	1.23	1.00	2.33	1.94	1.40	2.69	2.46	2.22	1.95	1.58	3.22	2.82	2.13	4.12	3.55	3.15	2.60	2.15	4.85	4.47	4.08	3.67	3.25						
7	7	T	1.22	1.14	0.96	0.87	0.65	1.56	1.46	1.26	1.09	0.93	2.05	1.76	1.29	2.51	2.29	2.11	1.92	1.58	2.94	2.57	2.04	4.00	3.42	3.05	2.51	2.09	4.64	4.30	3.95	3.56	3.17						
		S	1.12	1.08	0.90	0.81	0.61	1.45	1.38	1.20	1.05	0.87	1.93	1.62	1.20	2.27	2.08	1.91	1.70	1.37	2.70	2.37	1.84	3.58	3.05	2.74	2.22	1.84	4.20	3.87	3.54	3.19	2.83						
7	9	T	1.02	0.96	0.80	0.74	0.56	1.24	1.19	1.06	0.95	0.82	1.58	1.37	1.09	1.96	1.80	1.69	1.54	1.27	2.28	2.00	1.62	3.19	2.71	2.44	1.98	1.65	3.72	3.44	3.15	2.85	2.55						
		S	1.00	0.96	0.80	0.73	0.55	1.18	1.16	1.04	0.93	0.80	1.52	1.30	1.03	1.82	1.69	1.60	1.47	1.19	2.15	1.89	1.53	2.94	2.49	2.28	1.81	1.51	3.45	3.18	2.91	2.64	2.37						
9	3	T	1.40	1.28	1.10	0.96	0.69	2.17	1.96	1.73	1.53	1.22	2.81	2.43	1.78	3.38	3.00	2.73	2.43	2.00	3.91	3.46	2.69	5.10	4.46	3.93	3.36	2.82	5.87	5.46	5.04	4.56	4.07						
		S	1.22	1.15	0.98	0.86	0.63	1.77	1.62	1.44	1.27	1.01	2.39	2.00	1.44	2.74	2.50	2.23	1.94	1.56	3.29	2.87	2.15	4.18	3.61	3.17	2.63	2.18	4.94	4.54	4.14	3.71	3.27						
9	5	T	1.15	1.07	0.90	0.81	0.60	1.64	1.50	1.31	1.15	0.94	2.16	1.85	1.34	2.63	2.39	2.16	1.92	1.58	3.07	2.69	2.09	4.04	3.52	3.11	2.62	2.17	4.67	4.33	3.99	3.61	3.22						
		S	1.09	1.04	0.88	0.78	0.58	1.51	1.40	1.24	1.09	0.88	2.03	1.70	1.23	2.36	2.16	1.95	1.71	1.37	2.83	2.47	1.87	3.63	3.14	2.79	2.29	1.90	4.26	3.93	3.60	3.24	2.87						
9	7	T	0.97	0.90	0.76	0.68	0.51	1.29	1.20	1.04	0.91	0.78	1.69	1.46	1.06	2.08	1.89	1.73	1.55	1.27	2.43	2.13	1.67	3.31	2.83	2.50	2.07	1.72	3.86	3.57	3.27	2.94	2.60						
		S	0.97	0.90	0.76	0.68	0.51	1.23	1.18	1.03	0.91	0.77	1.63	1.38	1.03	1.92	1.77	1.64	1.48	1.20	2.29	2.00	1.58	3.05	2.60	2.35	1.89	1.58	3.59	3.31	3.02	2.73	2.43						
9	9	T	0.82	0.77	0.64	0.58	0.44	1.03	1.00	0.89	0.80	0.69	1.26	1.13	0.91	1.56	1.44	1.36	1.25	1.04	1.81	1.59	1.31	2.57	2.17	1.97	1.58	1.32	3.00	2.77	2.54	2.30	2.06						
		S	0.82	0.77	0.64	0.58	0.44	1.00	0.99	0.89	0.80	0.69	1.21	1.07	0.89	1.45	1.36	1.32	1.23	1.00	1.71	1.51	1.26	2.40	2.02	1.89	1.47	1.24	2.80	2.59	2.38	2.17	1.96						
11	3	T	1.07	0.98	0.84	0.74	0.54	1.70	1.52	1.34	1.18	0.95	2.22	1.92	1.37	2.67	2.43	2.16	1.88	1.55	3.11	2.73	2.09	4.03	3.52	3.07	2.64	2.20	4.69	4.34	3.98	3.58	3.17						
		S	1.05	0.98	0.84	0.74	0.54	1.56	1.42	1.26	1.11	0.89	2.09	1.76	1.26	2.41	2.20	1.96	1.70	1.37	2.88	2.52	1.89	3.67	3.17	2.79	2.32	1.92	4.31	3.97	3.63	3.25	2.87						
11	5	T	0.91	0.83	0.71	0.63	0.46	1.35	1.22	1.06	0.93	0.75	1.79	1.53	1.09	2.17	1.96	1.75	1.53	1.25	2.55	2.23	1.69	3.36	2.92	2.53	2.14	1.76	3.90	3.61	3.32	2.98	2.63						
		S	0.91	0.83	0.71	0.63	0.46	1.29	1.21	1.06	0.93	0.75	1.72	1.44	1.06	2.01	1.84	1.68	1.48	1.20	2.40	2.10	1.61	3.12	2.69	2.39	1.96	1.63	3.64	3.37	3.09	2.78	2.47						
11	7	T	0.78	0.72	0.61	0.54	0.40	1.04	0.97	0.85	0.76	0.65	1.36	1.17	0.87	1.67	1.53	1.40	1.26	1.03	1.95	1.71	1.35	2.68	2.29	2.03	1.67	1.39	3.13	2.89	2.65	2.38	2.11						
		S	0.78	0.72	0.61	0.54	0.40	1.00	0.97	0.85	0.76	0.65	1.31	1.11	0.86	1.56	1.45	1.36	1.24	1.01	1.84	1.63	1.31	2.50	2.13	1.94	1.55	1.30	2.93	2.71	2.48	2.25	2.02						
11	9	T	0.65	0.61	0.51	0.46	0.35	0.85	0.82	0.73	0.66	0.57	0.99	0.92	0.75	1.16	1.08	1.05	0.99	0.84	1.33	1.18	1.01	1.96	1.64	1.52	1.19	1.00	2.28	2.11	1.94	1.77	1.59						
		S	0.65	0.61	0.51	0.46	0.35	0.81	0.82	0.73	0.66	0.57	0.96	0.87	0.74	1.08	1.02	1.02	0.98	0.83	1.26	1.12	0.98	1.83	1.52	1.46	1.10	0.93	2.13	1.97	1.81	1.67	1.52						
13	3	T	0.84	0.76	0.66	0.57	0.40	1.38	1.22	1.07	0.95	0.75	1.85	1.57	1.10	2.20	1.99	1.75	1.49	1.21	2.60	2.26	1.69	3.35	2.91	2.50	2.15	1.78	3.92	3.61	3.30	2.95	2.59						
		S	0.84	0.76	0.66	0.57	0.40	1.33	1.22	1.07	0.95	0.75	1.78	1.50	1.08	2.06	1.88	1.69	1.47	1.18	2.45	2.15	1.62	3.12	2.70	2.39	1.99	1.66	3.66	3.38	3.09	2.78	2.46						
13	5	T	0.73	0.67	0.57	0.50	0.36	1.09	0.99	0.86	0.76	0.61	1.45	1.24	0.89	1.76	1.59	1.43	1.25	1.02	2.07	1.81	1.38	2.76	2.38	2.07	1.74	1.43	3.21	2.97	2.73	2.44	2.15						
		S	0.73	0.67	0.57	0.50	0.36	1.05	0.99	0.86	0.76	0.61	1.40	1.18	0.87	1.64	1.51	1.39	1.24	1.00	1.96	1.72	1.33	2.58	2.21	1.98	1.61	1.34	3.00	2.78	2.55	2.30	2.05						
13	7	T	0.62	0.57	0.48	0.43	0.32	0.81	0.77	0.69	0.62	0.53	1.02	0.89	0.71	1.27	1.16	1.00	0.99	0.81	1.47	1.29	1.05	2.07	1.75	1.58	1.28	1.06	2.41	2.23	2.05	1.85	1.65						
		S	0.62	0.57	0.48	0.43	0.32	0.78	0.77	0.69	0.62	0.53	0.98	0.84	0.70	1.18	1.10	1.06	0.99	0.80	1.39	1.23	1.02	1.93	1.63	1.51	1.19	1.00	2.26	2.09	1.91	1.74	1.57						
13	9	T	0.50	0.47	0.39	0.36	0.27	0.66	0.64	0.57	0.52	0.45	0.77	0.71	0.59	0.83	0.80	0.79	0.76	0.66	0.89	0.83	0.77	1.33	1.08	1.05	0.82	0.74	1.53	1.42	1.31	1.21							

Cooling capacities, four-pipe coil

EWT °C	ΔT K	42N_S 15-E 19					42N_S 20-E 29					42N_S 26					42N_S 30-E 39					42N_S 42					42N_S 45-E 49					42N_S 65-E69							
		Fan speed					Fan speed					Fan speed					Fan speed					Fan speed					Fan speed					Fan speed							
		1	2	3	4	5	1	2	3	4	5	1	2	3	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Entering air temperature 21°C wb / 29°C db																																							
5	3	T	2.43	2.21	1.90	1.65	1.16	4.00	3.55	3.15	2.79	2.21	5.26	4.53	3.22	6.31	5.71	5.03	4.31	3.53	7.37	6.47	4.87	9.51	8.32	7.18	6.20	5.14	11.03	10.22	9.40	8.42	7.43						
		S	1.63	1.55	1.32	1.15	0.85	2.42	2.22	1.98	1.74	1.40	3.26	2.73	1.97	3.75	3.42	3.05	2.64	2.13	4.50	3.93	2.93	5.69	4.93	4.32	3.61	2.99	6.71	6.18	5.64	5.05	4.45						
5	5	T	2.20	2.02	1.73	1.52	1.08	3.38	3.07	2.68	2.36	1.90	4.36	3.80	2.75	5.27	4.81	4.34	3.80	3.13	6.06	5.38	4.20	7.98	6.96	6.14	5.24	4.39	9.16	8.52	7.88	7.12	6.36						
		S	1.52	1.45	1.23	1.09	0.81	2.17	2.01	1.78	1.56	1.26	2.91	2.44	1.77	3.35	3.06	2.76	2.42	1.96	3.99	3.50	2.66	5.10	4.40	3.90	3.23	2.69	6.00	5.53	5.05	4.54	4.02						
5	7	T	1.96	1.82	1.55	1.38	1.00	2.60	2.46	2.12	1.84	1.53	3.34	2.91	2.18	4.16	3.83	3.56	3.21	2.64	4.77	4.25	3.43	6.44	5.60	5.08	4.22	3.52	7.31	6.84	6.37	5.82	5.27						
		S	1.42	1.36	1.15	1.02	0.76	1.87	1.76	1.54	1.34	1.10	2.43	2.11	1.54	3.04	2.89	2.45	2.18	1.75	3.52	3.08	2.35	4.54	3.90	3.49	2.85	2.36	5.33	4.91	4.49	4.05	3.60						
5	9	T	1.70	1.60	1.34	1.22	0.91	1.90	1.86	1.58	1.37	1.20	2.43	2.12	1.62	3.04	2.82	2.70	2.54	2.01	3.50	3.10	2.60	4.99	4.23	3.89	3.12	2.62	5.72	5.33	4.93	4.50	4.07						
		S	1.30	1.25	1.05	0.94	0.72	1.59	1.52	1.32	1.15	0.97	2.13	1.78	1.32	2.49	2.29	2.12	1.91	1.54	2.99	2.61	2.03	3.97	3.37	3.03	2.43	2.02	4.68	4.31	3.93	3.54	3.14						
7	3	T	2.14	1.94	1.67	1.45	1.03	3.47	3.09	2.74	2.43	1.94	4.54	3.92	2.81	5.46	4.95	4.38	3.77	3.10	6.35	5.59	4.24	8.23	7.20	6.24	5.38	4.47	9.51	8.82	8.13	7.29	6.45						
		S	1.49	1.41	1.21	1.05	0.77	2.20	2.02	1.80	1.59	1.27	2.97	2.49	1.79	3.42	3.11	2.77	2.40	1.94	4.10	3.58	2.67	5.19	4.48	3.93	3.28	2.72	6.13	5.64	5.14	4.60	4.05						
7	5	T	1.89	1.74	1.49	1.31	0.95	2.81	2.57	2.25	1.97	1.60	3.61	3.16	2.30	4.38	4.02	3.67	3.24	2.67	5.01	4.47	3.55	6.65	5.80	5.17	4.39	3.69	7.59	7.08	6.57	5.96	5.35						
		S	1.38	1.32	1.12	0.99	0.73	1.95	1.80	1.59	1.39	1.13	2.62	2.20	1.59	3.02	2.76	2.49	2.14	1.76	3.61	3.16	2.40	4.62	3.98	3.52	2.91	2.42	5.43	5.00	4.57	4.10	3.63						
7	7	T	1.64	1.53	1.30	1.16	0.86	2.05	1.96	1.68	1.46	1.22	2.64	2.30	1.73	3.28	3.02	2.84	2.60	2.14	3.79	3.35	2.73	5.18	4.49	4.08	3.34	2.79	5.88	5.50	5.11	4.68	4.24						
		S	1.27	1.22	1.03	0.92	0.69	1.66	1.56	1.37	1.19	0.97	2.23	1.87	1.36	2.60	2.38	2.17	1.93	1.55	3.12	2.72	2.08	4.05	3.48	3.11	2.52	2.09	4.76	4.39	4.02	3.62	3.21						
7	9	T	1.35	1.27	1.06	0.98	0.75	1.53	1.47	1.27	1.13	1.00	1.98	1.71	1.30	2.46	2.26	2.14	2.01	1.66	2.85	2.51	2.06	3.99	3.39	3.09	2.49	2.08	4.62	4.28	3.94	3.59	3.23						
		S	1.14	1.10	0.93	0.83	0.64	1.40	1.34	1.17	1.04	0.88	1.85	1.56	1.17	2.18	2.02	1.87	1.69	1.36	2.60	2.28	1.79	3.49	2.96	2.68	2.15	1.79	4.11	3.79	3.46	3.12	2.77						
9	3	T	1.82	1.66	1.43	1.25	0.89	2.91	2.61	2.31	2.05	1.64	3.78	3.28	2.37	4.56	4.15	3.70	3.20	2.64	5.28	4.66	3.58	6.87	6.01	5.25	4.51	3.76	7.92	7.36	6.79	6.11	5.43						
		S	1.35	1.28	1.09	0.95	0.70	1.99	1.82	1.62	1.43	1.14	2.68	2.24	1.61	3.08	2.80	2.50	2.17	1.75	3.70	3.23	2.40	4.69	4.05	3.55	2.95	2.45	5.54	5.09	4.64	4.15	3.65						
9	5	T	1.57	1.45	1.24	1.10	0.80	2.20	2.05	1.78	1.55	1.27	2.85	2.48	1.83	3.48	3.20	2.95	2.63	2.16	3.98	3.54	2.85	5.29	4.61	4.14	3.50	2.95	6.02	5.62	5.22	4.76	4.29						
		S	1.24	1.18	1.00	0.88	0.66	1.72	1.60	1.41	1.23	1.00	2.33	1.94	1.40	2.69	2.46	2.22	1.94	1.56	3.21	2.81	2.13	4.11	3.54	3.14	2.59	2.15	4.83	4.45	4.07	3.66	3.24						
9	7	T	1.29	1.21	1.02	0.93	0.70	1.62	1.53	1.32	1.14	0.96	2.11	1.82	1.35	2.59	2.38	2.22	2.02	1.67	3.02	2.65	2.14	4.14	3.55	3.20	2.62	2.19	4.75	4.42	4.09	3.71	3.33						
		S	1.12	1.08	0.91	0.81	0.61	1.46	1.37	1.20	1.05	0.86	1.95	1.64	1.20	2.28	2.10	1.91	1.70	1.36	2.73	2.39	1.84	3.60	3.07	2.74	2.22	1.84	4.21	3.89	3.56	3.20	2.83						
9	9	T	1.07	1.01	0.84	0.77	0.59	1.26	1.20	1.07	0.96	0.83	1.63	1.40	1.09	2.01	1.85	1.73	1.59	1.30	2.34	2.06	1.67	3.27	2.78	2.50	2.03	1.69	3.80	3.52	3.23	2.92	2.61						
		S	0.99	0.96	0.80	0.72	0.55	1.18	1.16	1.03	0.92	0.79	1.55	1.32	1.03	1.85	1.71	1.61	1.47	1.19	2.19	1.93	1.55	2.98	2.52	2.31	1.83	1.53	3.50	3.23	2.95	2.67	2.39						
11	3	T	1.49	1.36	1.17	1.03	0.74	2.31	2.10	1.86	1.64	1.32	2.98	2.60	1.90	3.60	3.29	2.96	2.59	2.14	4.14	3.67	2.87	5.43	4.75	4.19	3.59	3.01	6.21	5.79	5.36	4.85	4.34						
		S	1.21	1.14	0.97	0.85	0.62	1.77	1.62	1.44	1.26	1.01	2.39	1.99	1.43	2.74	2.49	2.22	1.93	1.55	3.28	2.87	2.14	4.17	3.60	3.16	2.62	2.17	4.93	4.53	4.13	3.69	3.25						
11	5	T	1.21	1.13	0.96	0.87	0.64	1.70	1.58	1.37	1.20	0.98	2.22	1.92	1.41	2.73	2.49	2.27	2.02	1.67	3.15	2.79	2.19	4.16	3.63	3.24	2.74	2.28	4.77	4.44	4.11	3.73	3.35						
		S	1.09	1.04	0.88	0.78	0.58	1.51	1.40	1.23	1.08	0.87	2.04	1.70	1.23	2.37	2.16	1.94	1.70	1.37	2.83	2.48	1.87	3.63	3.13	2.77	2.29	1.89	4.26	3.93	3.59	3.22	2.85						
11	7	T	1.00	0.94	0.79	0.71	0.53	1.32	1.22	1.06	0.92	0.78	1.73	1.49	1.09	2.12	1.93	1.77	1.58	1.30	2.48	2.17	1.70	3.37	2.89	2.55	2.11	1.75	3.92	3.63	3.33	3.00	2.66						
		S	0.97	0.93	0.78	0.70	0.53	1.24	1.19	1.04	0.90	0.77	1.65	1.39	1.03	1.94	1.79	1.65	1.48	1.19	2.31	2.03	1.59	3.07	2.62	2.36	1.91	1.59	3.61	3.33	3.04	2.74	2.44						
11	9	T	0.84	0.79	0.66	0.60	0.45	1.04	1.00	0.89	0.80	0.69	1.29	1.13	0.91	1.60	1.47	1.39	1.28	1.05	1.86	1.64	1.34	2.63	2.22	2.01	1.62	1.35	3.06	2.83	2.60	2.35	2.10						
		S	0.84	0.79	0.66	0.60	0.45	0.99	0.99	0.89	0.89	0.79	1.24	1.08	0.88	1.49	1.40	1.34	1.24	1.00	1.76	1.55	1.28	2.45	2.06	1.91	1.50	1.26	2.86	2.65	2.43	2.21	1.99						
13	3	T	1.13	1.04	0.89	0.79	0.58	1.77	1.59	1.40	1.24	1.00	2.29	1.99	1.44	2.76	2.52	2.25	1.97	1.63	3.20	2.83	2.18	4.17	3.65	3.19	2.74	2.29	4.81	4.47	4.12	3.71	3.30						
		S	1.06	1.00	0.85	0.75	0.55	1.55	1.42	1.26	1.10	0.88	2.09	1.75	1.25	2.40	2.19	1.95	1.69	1.36	2.89	2.52	1.87	3.66	3.16	2.76	2.30	1.90	4.32	3.98	3.63	3.24	2.85						
13	5	T	0.93	0.86	0.73	0.65	0.48	1.37	1.24	1.08	0.95	0.76	1.81	1.55	1.11	2.20	1.99	1.78	1.56	1.28	2.59	2.26	1.72	3.39	2.95	2.57	2.17	1.79	3.93	3.64	3.35	3.01	2.67						
		S	0.93	0.86	0.73	0.65	0.48	1.29	1.21	1.07	0.93	0.76	1.73	1.45	1.06	2.02	1.85	1.68	1.48	1.19	2.42	2.11	1.61	3.12	2.69	2.40	1.96	1.63	3.65	3.37	3.09	2.78	2.47						
13	7	T	0.79	0.73	0.62	0.55	0.41	1.05	0.98	0.85	0.76	0.65	1.38	1.19	0.88	1.70	1.55	1.42	1.27	1.04	1.99	1.74	1.37	2.72	2.32	2.06	1.70	1.41	3.18	2.93	2.68	2.41	2.14						
		S	0.79	0.73	0.62	0.55	0.41	1.02	0.98	0.85	0.76	0.65	1.34	1.13	0.86	1.59	1.47	1.37	1.25	1.01	1.88	1.65	1.32	2.54	2.16	1.96	1.57	1.31	2.97	2.74	2.51	2.27	2.03						
13	9	T	0.66	0.62	0.52	0.47	0.36	0.84	0.82	0.73	0.66	0.57	1.00	0.92	0.75	1.20	1.11	1.07	1.00	0.84	1.38	1.22	1.03	2.01	1.69	1.55	1.23	1.02	2.34	2.17									

Heating capacities, four-pipe coil

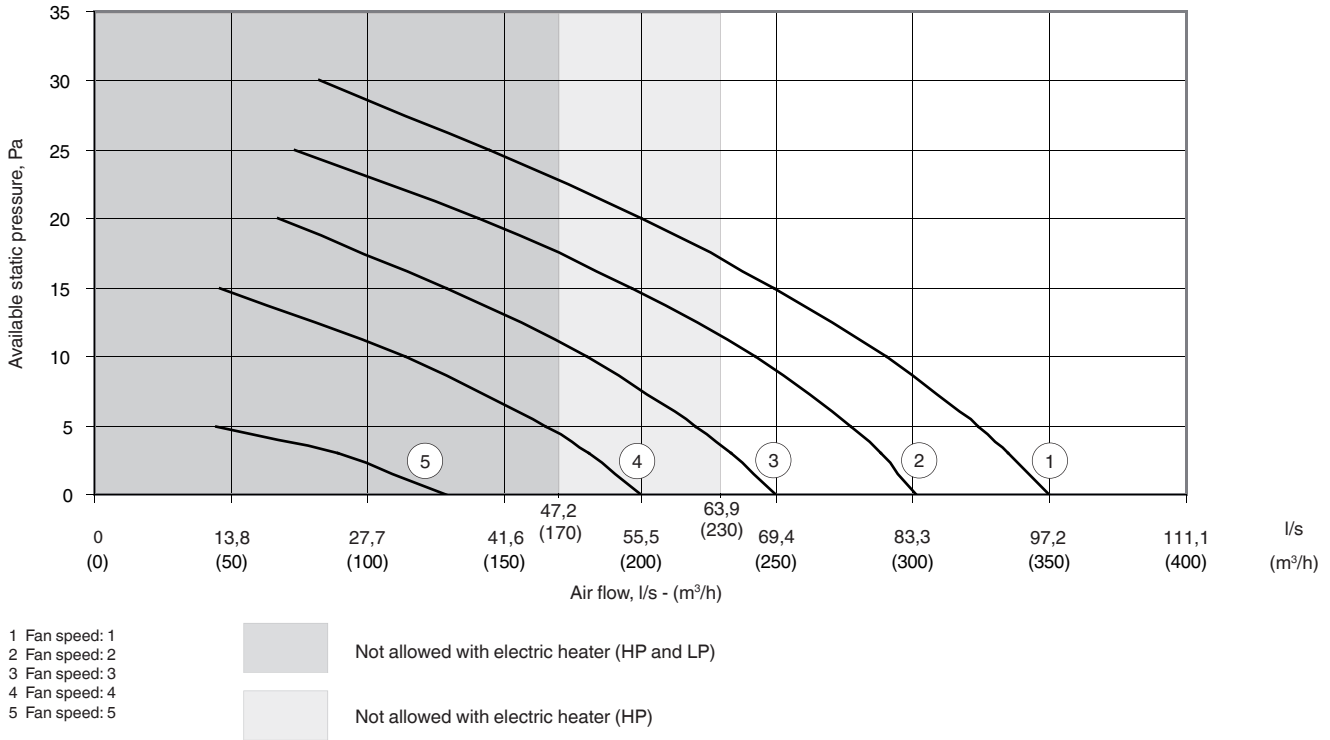
Total heating capacity, kW		42N_S 20-E 29					42N_S 30-E 39					42N_S 42					42N_S 45-E 49					42N_S 65-E69										
EWT °C	ΔT K	Fan speed					Fan speed					Fan speed					Fan speed					Fan speed										
		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5						
Entering air temperature: 19°C																																
50	5	0.96	0.86	0.72	0.63	0.38	1.82	1.70	1.56	1.40	1.16	2.40	2.01	1.59	2.68	2.42	2.23	1.99	1.73	3.18	2.79	2.13	3.87	3.56	3.18	2.86	2.48	4.51	4.18	3.84	3.55	3.25
50	10	0.87	0.78	0.65	0.57	0.28	1.64	1.53	1.41	1.27	1.05	2.17	1.81	1.43	2.42	2.18	2.01	1.80	1.56	2.87	2.52	1.93	3.50	3.21	2.87	2.58	2.24	4.07	3.77	3.47	3.21	2.94
60	5	1.30	1.16	0.98	0.85	0.54	2.47	2.30	2.11	1.90	1.57	3.25	2.72	2.15	3.63	3.27	3.01	2.69	2.34	4.30	3.77	2.89	5.24	4.81	4.30	3.87	3.35	6.10	5.65	5.20	4.80	4.40
60	10	1.21	1.08	0.91	0.79	0.45	2.29	2.14	1.96	1.77	1.46	3.02	2.52	2.00	3.37	3.04	2.80	2.51	2.17	4.00	3.51	2.69	4.87	4.47	4.00	3.60	3.12	5.67	5.25	4.83	4.46	4.09
70	5	1.63	1.46	1.23	1.07	0.69	3.11	2.90	2.66	2.40	1.98	4.10	3.42	2.71	4.58	4.13	3.80	3.40	2.95	5.42	4.76	3.64	6.61	6.07	5.42	4.88	4.23	7.69	7.13	6.56	6.06	5.55
70	10	1.55	1.38	1.17	1.01	0.62	2.94	2.74	2.52	2.26	1.87	3.87	3.24	2.56	4.33	3.90	3.59	3.21	2.79	5.12	4.50	3.44	6.25	5.74	5.12	4.61	4.00	7.27	6.74	6.20	5.72	5.24
80	5	1.97	1.76	1.49	1.29	0.85	3.75	3.50	3.21	2.89	2.39	4.94	4.13	3.27	5.52	4.98	4.59	4.10	3.56	6.54	5.74	4.40	7.98	7.32	6.54	5.89	5.10	9.29	8.60	7.91	7.31	6.70
80	10	1.89	1.69	1.42	1.24	0.77	3.59	3.34	3.07	2.76	2.28	4.72	3.95	3.12	5.28	4.76	4.38	3.92	3.40	6.25	5.48	4.20	7.62	7.00	6.25	5.62	4.87	8.87	8.22	7.56	6.98	6.40
Entering air temperature: 20°C																																
50	5	0.92	0.82	0.70	0.60	0.37	1.75	1.64	1.50	1.35	1.12	2.31	1.93	1.53	2.58	2.33	2.14	1.92	1.66	3.06	2.68	2.05	3.73	3.42	3.06	2.75	2.38	4.34	4.02	3.70	3.42	3.13
50	10	0.83	0.74	0.63	0.54	0.27	1.58	1.47	1.35	1.21	1.00	2.08	1.74	1.37	2.32	2.09	1.93	1.72	1.49	2.75	2.41	1.85	3.35	3.08	2.75	2.47	2.14	3.90	3.62	3.33	3.07	2.81
60	5	1.26	1.13	0.95	0.83	0.52	2.40	2.24	2.05	1.85	1.52	3.16	2.64	2.09	3.53	3.18	2.93	2.62	2.27	4.18	3.67	2.81	5.10	4.68	4.18	3.76	3.26	5.93	5.49	5.05	4.67	4.28
60	10	1.17	1.05	0.88	0.77	0.44	2.22	2.07	1.90	1.71	1.41	2.93	2.45	1.94	3.27	2.95	2.72	2.43	2.11	3.88	3.40	2.60	4.73	4.34	3.88	3.49	3.02	5.50	5.10	4.69	4.33	3.97
70	5	1.60	1.43	1.21	1.05	0.68	3.04	2.83	2.60	2.34	1.93	4.00	3.35	2.65	4.47	4.03	3.71	3.32	2.88	5.30	4.65	3.56	6.46	5.93	5.30	4.77	4.13	7.52	6.97	6.41	5.92	5.42
70	10	1.51	1.35	1.14	0.99	0.60	2.87	2.68	2.45	2.21	1.82	3.78	3.16	2.50	4.22	3.81	3.51	3.14	2.72	5.00	4.39	3.36	6.10	5.60	5.00	4.50	3.90	7.10	6.58	6.05	5.59	5.12
80	5	1.94	1.73	1.46	1.27	0.83	3.68	3.43	3.15	2.84	2.34	4.85	4.06	3.21	5.42	4.89	4.50	4.02	3.49	6.42	5.63	4.31	7.83	7.19	6.42	5.77	5.01	9.11	8.44	7.76	7.17	6.57
80	10	1.85	1.65	1.40	1.21	0.76	3.51	3.28	3.01	2.71	2.23	4.63	3.87	3.06	5.17	4.66	4.29	3.84	3.33	6.12	5.38	4.11	7.47	6.86	6.12	5.51	4.78	8.69	8.05	7.41	6.84	6.27
Entering air temperature: 21°C																																
50	5	0.89	0.79	0.67	0.58	0.35	1.69	1.57	1.44	1.30	1.07	2.22	1.86	1.47	2.48	2.24	2.06	1.84	1.60	2.94	2.58	1.98	3.59	3.29	2.94	2.65	2.29	4.18	3.87	3.56	3.29	3.01
50	10	0.80	0.71	0.60	0.52	0.26	1.51	1.41	1.29	1.16	0.96	1.99	1.66	1.31	2.22	2.00	1.84	1.65	1.43	2.63	2.31	1.77	3.21	2.95	2.63	2.37	2.05	3.74	3.46	3.18	2.94	2.69
60	5	1.22	1.09	0.92	0.80	0.51	2.33	2.17	1.99	1.79	1.48	3.07	2.56	2.03	3.43	3.09	2.85	2.54	2.21	4.06	3.56	2.73	4.95	4.55	4.06	3.65	3.16	5.76	5.34	4.91	4.54	4.16
60	10	1.13	1.01	0.86	0.74	0.42	2.16	2.01	1.84	1.66	1.37	2.84	2.37	1.88	3.17	2.86	2.63	2.36	2.04	3.76	3.30	2.52	4.58	4.21	3.76	3.38	2.93	5.34	4.95	4.55	4.20	3.85
70	5	1.56	1.40	1.18	1.02	0.66	2.97	2.77	2.54	2.29	1.89	3.91	3.27	2.59	4.37	3.94	3.63	3.24	2.81	5.18	4.54	3.48	6.31	5.80	5.18	4.66	4.04	7.35	6.81	6.26	5.78	5.30
70	10	1.47	1.32	1.11	0.97	0.58	2.80	2.61	2.40	2.16	1.78	3.69	3.08	2.44	4.12	3.72	3.42	3.06	2.65	4.88	4.28	3.28	5.95	5.46	4.88	4.39	3.80	6.93	6.42	5.90	5.45	5.00
80	5	1.90	1.70	1.43	1.24	0.81	3.61	3.37	3.09	2.78	2.30	4.76	3.98	3.15	5.32	4.79	4.41	3.95	3.42	6.29	5.53	4.23	7.68	7.05	6.29	5.66	4.91	8.94	8.28	7.62	7.03	6.44
80	10	1.81	1.62	1.37	1.19	0.74	3.44	3.21	2.95	2.65	2.19	4.54	3.79	3.00	5.07	4.57	4.21	3.76	3.26	6.00	5.27	4.03	7.32	6.72	6.00	5.40	4.68	8.52	7.89	7.26	6.70	6.14

EAT
EWT
ΔT

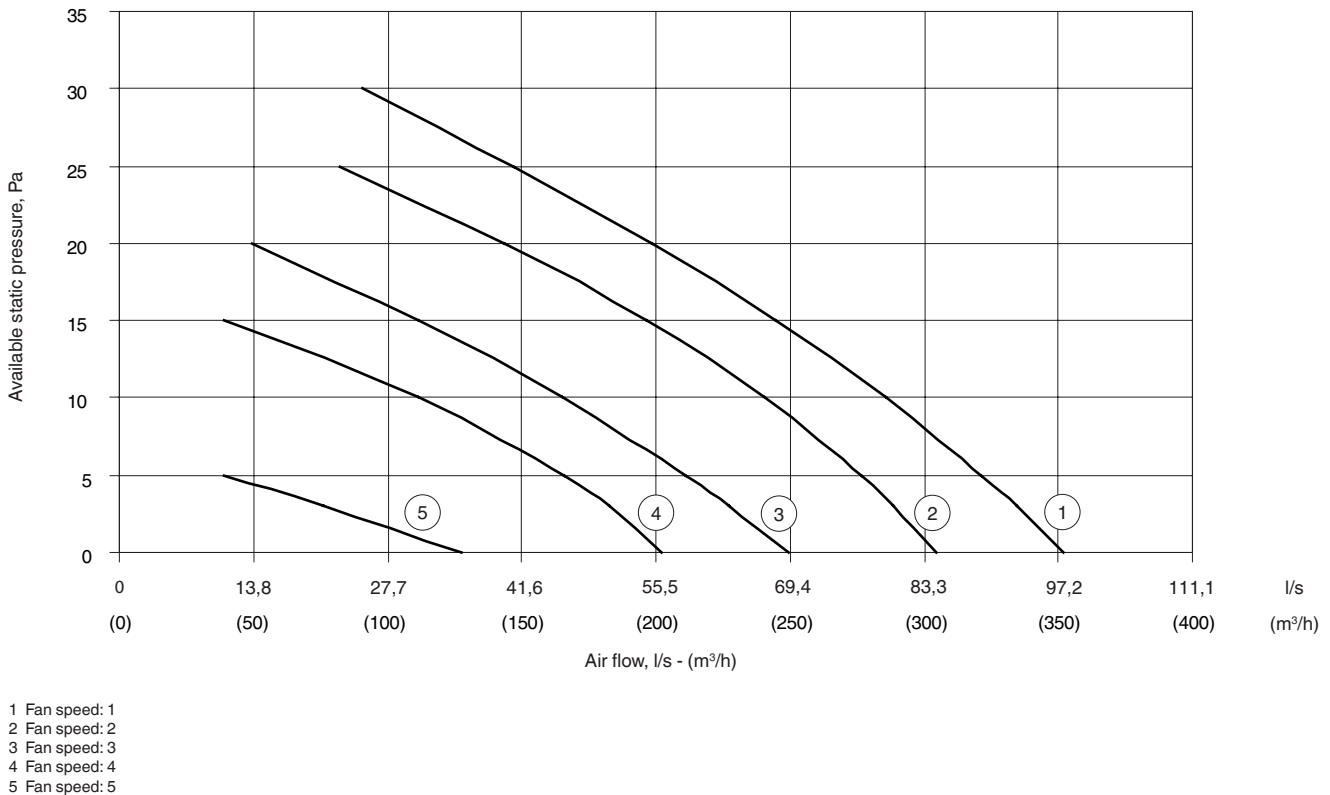
Entering air temperature
Entering water temperature
Available temperature difference - EWT - EAT

Fan performances

42N_S 15, two-pipe coil

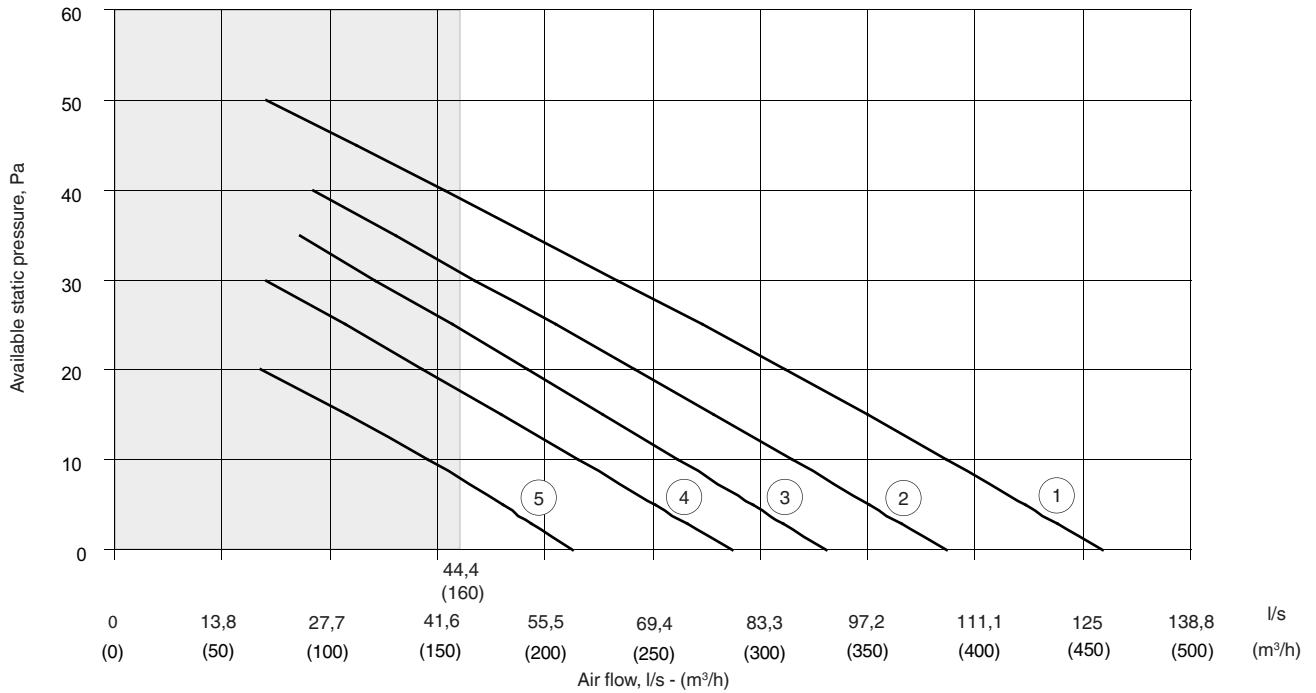


42N_S 15, four-pipe coil



Fan performances (continued)

42N_S 20, two-pipe and four-pipe coil

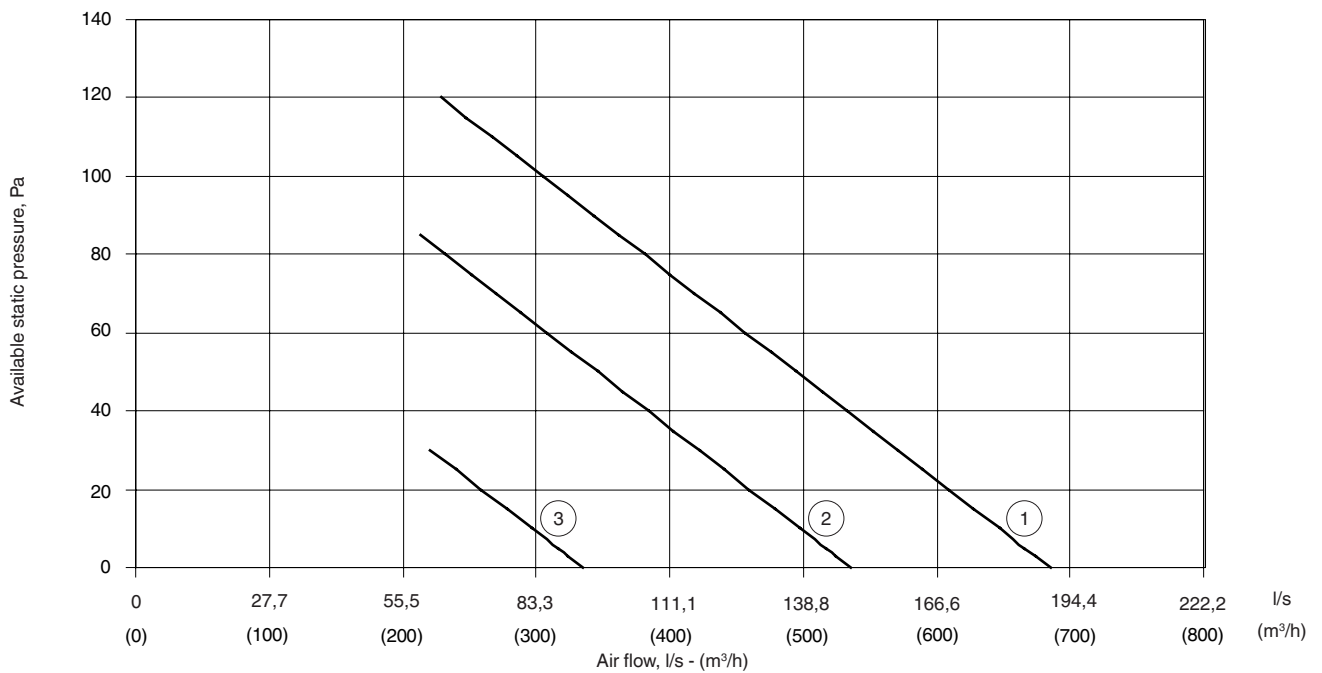


- 1 Fan speed: 1
- 2 Fan speed: 2
- 3 Fan speed: 3
- 4 Fan speed: 4
- 5 Fan speed: 5



Not allowed with electric heater

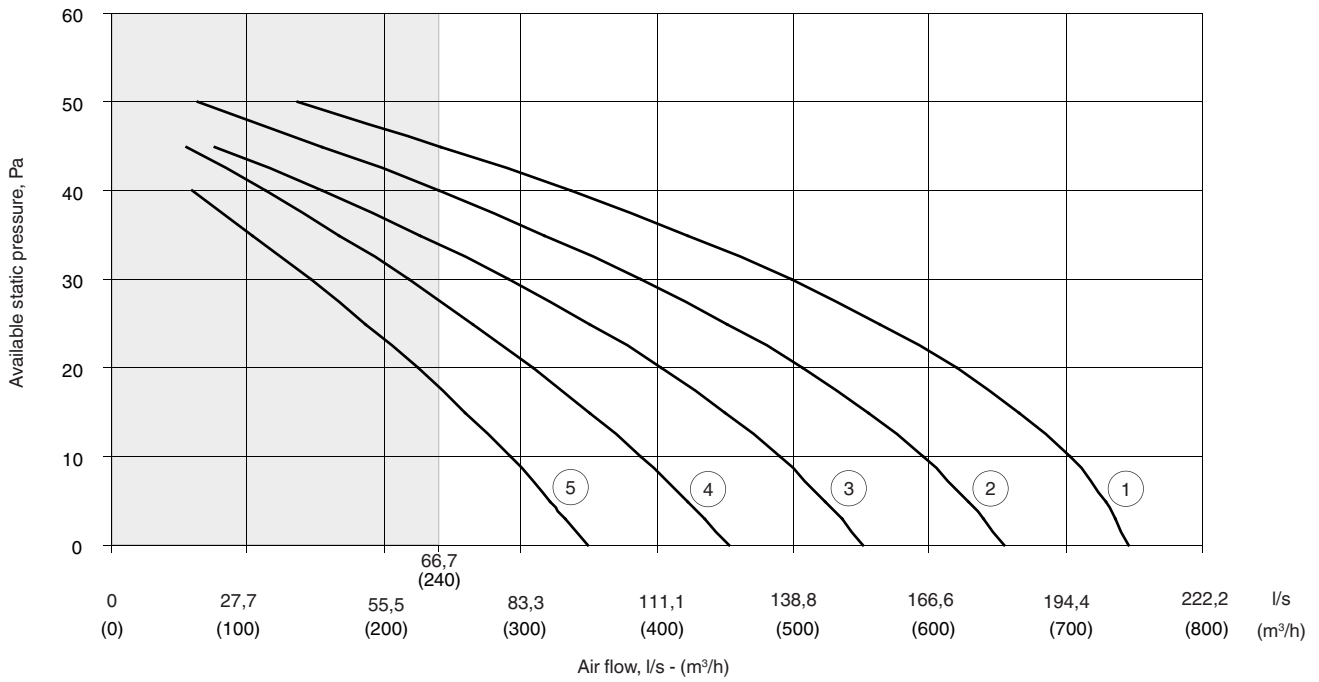
42N_S 26, two-pipe and four-pipe coil



- 1 Fan speed: 1
- 2 Fan speed: 2
- 3 Fan speed: 3

Fan performances (continued)

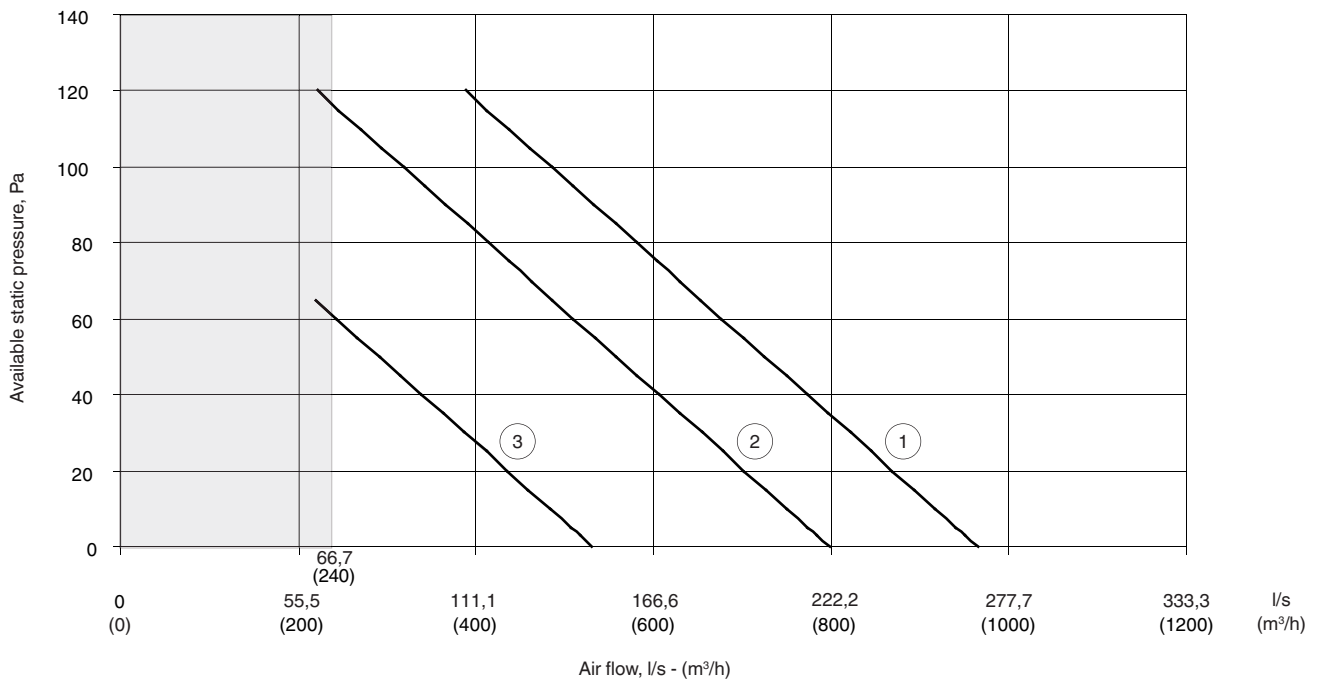
42N_S 30, two-pipe and four-pipe coil



- 1 Fan speed: 1
- 2 Fan speed: 2
- 3 Fan speed: 3
- 4 Fan speed: 4
- 5 Fan speed: 5

Not allowed with electric heater

42N_S 42, two-pipe and four-pipe coil

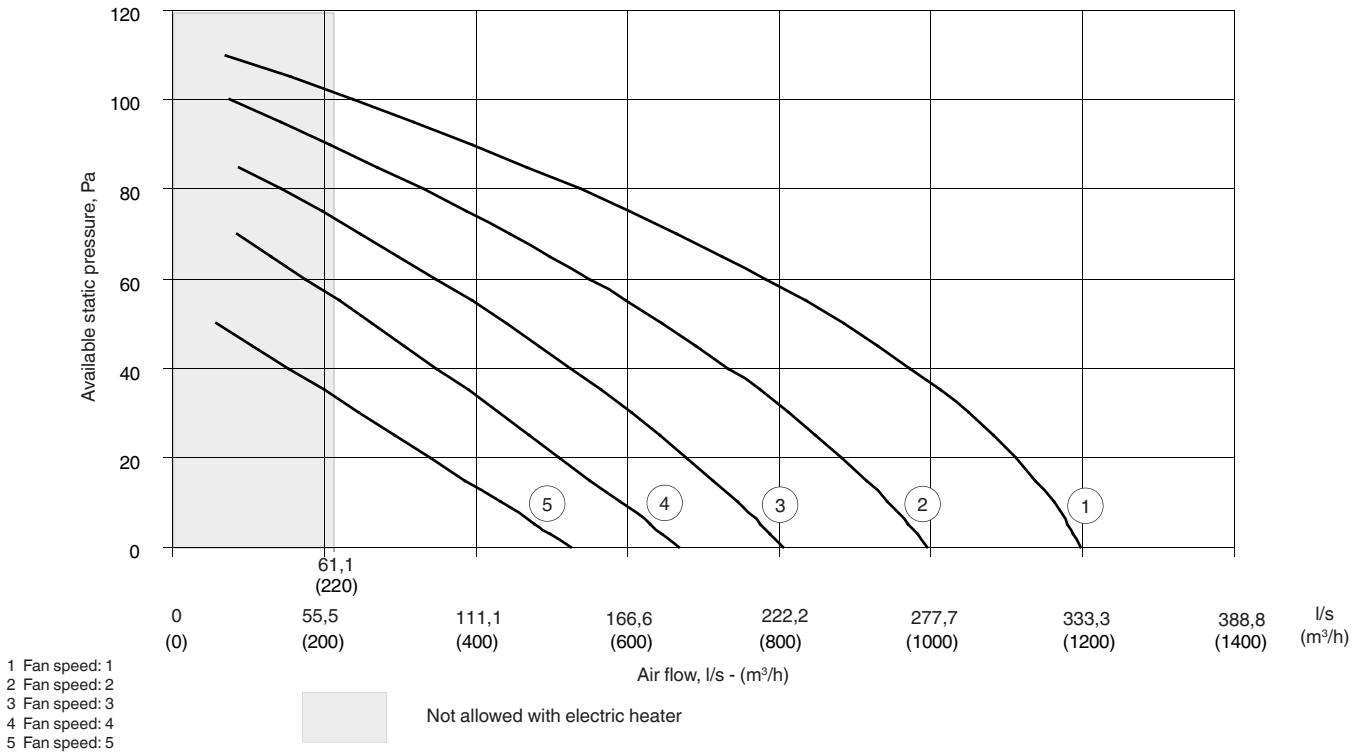


- 1 Fan speed: 1
- 2 Fan speed: 2
- 3 Fan speed: 3

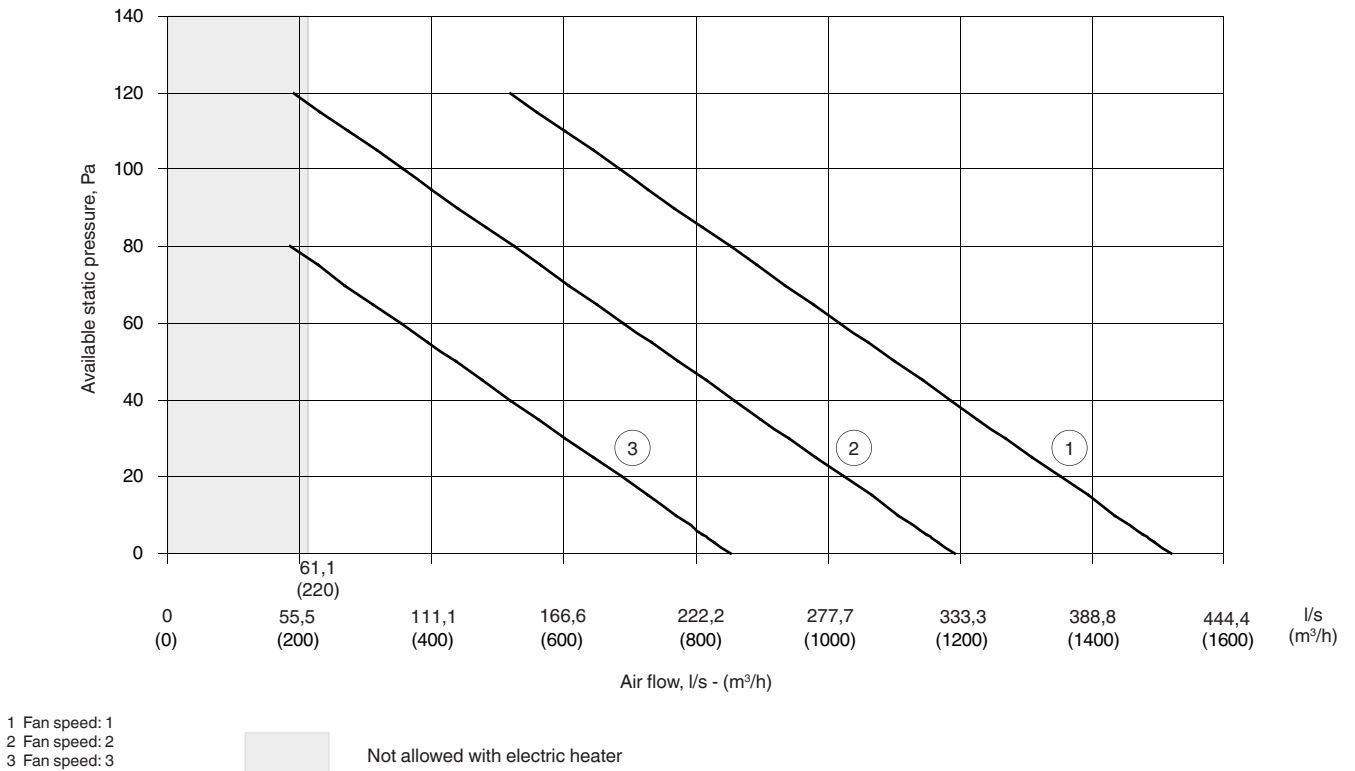
Not allowed with electric heater

Fan performances (continued)

42N_S 45, two-pipe and four-pipe coil

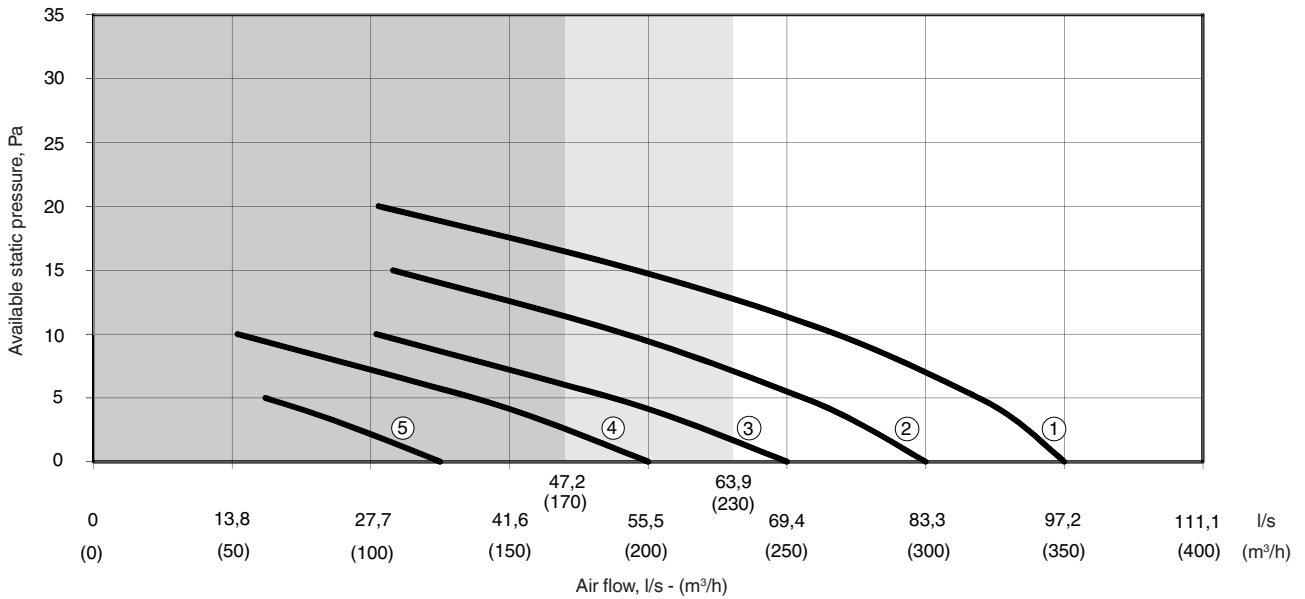


42N_S 65, two-pipe and four-pipe coil



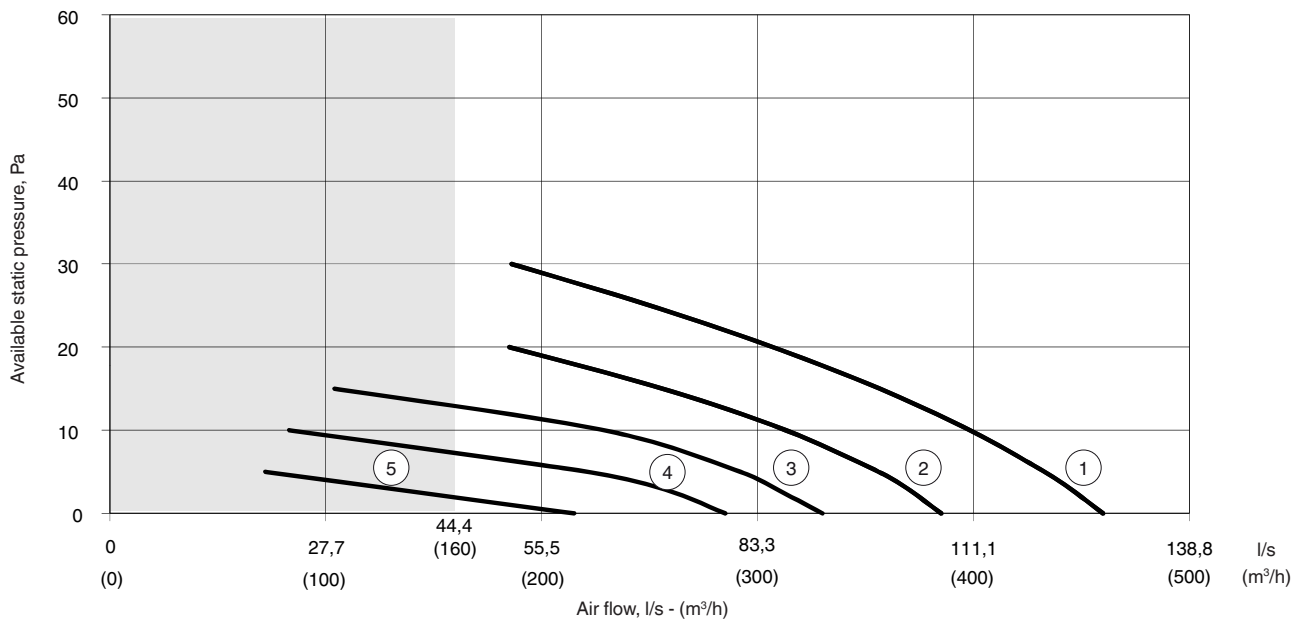
Fan performances, units with LEC motors

42N_E 19, two-pipe and four-pipe coil



- 1 Fan speed: 100%
 - 2 Fan speed: 75%
 - 3 Fan speed: 60%
 - 4 Fan speed: 45%
 - 5 Fan speed: 30%
- Not allowed with electric heater (HP and LP)
- Not allowed with electric heater (HP)

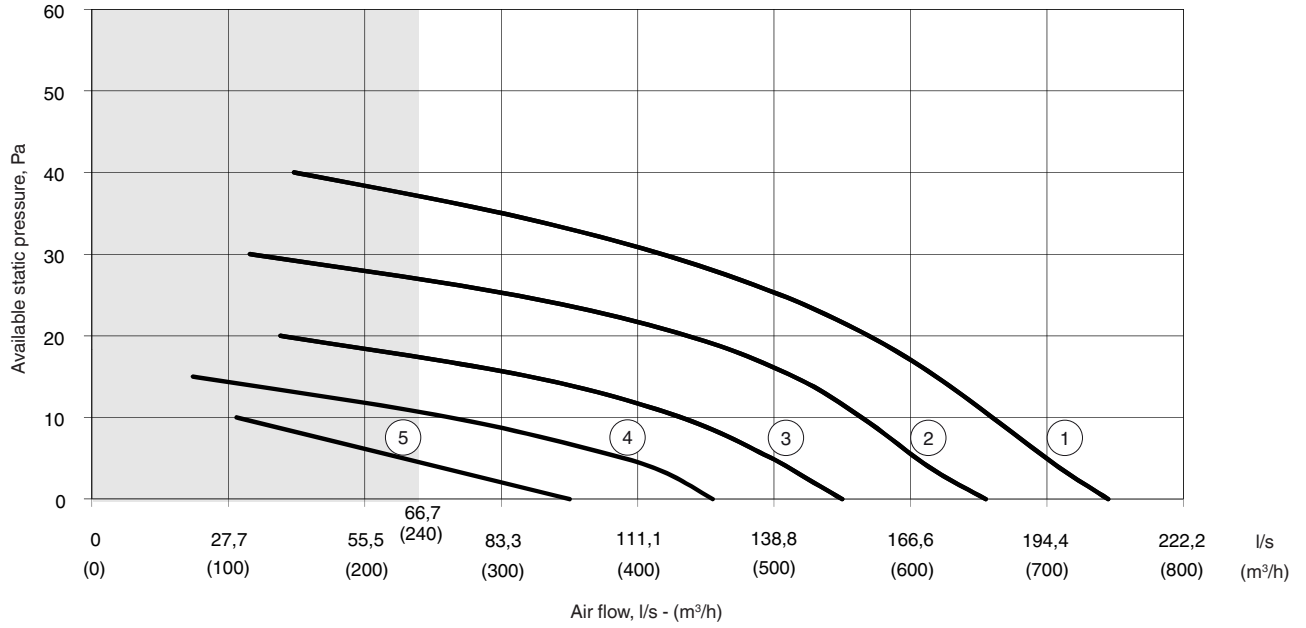
42N_E 29, two-pipe and four-pipe coil



- 1 Fan speed: 100%
 - 2 Fan speed: 75%
 - 3 Fan speed: 60%
 - 4 Fan speed: 45%
 - 5 Fan speed: 30%
- Not allowed with electric heater

Fan performances, units with LEC motors (continued)

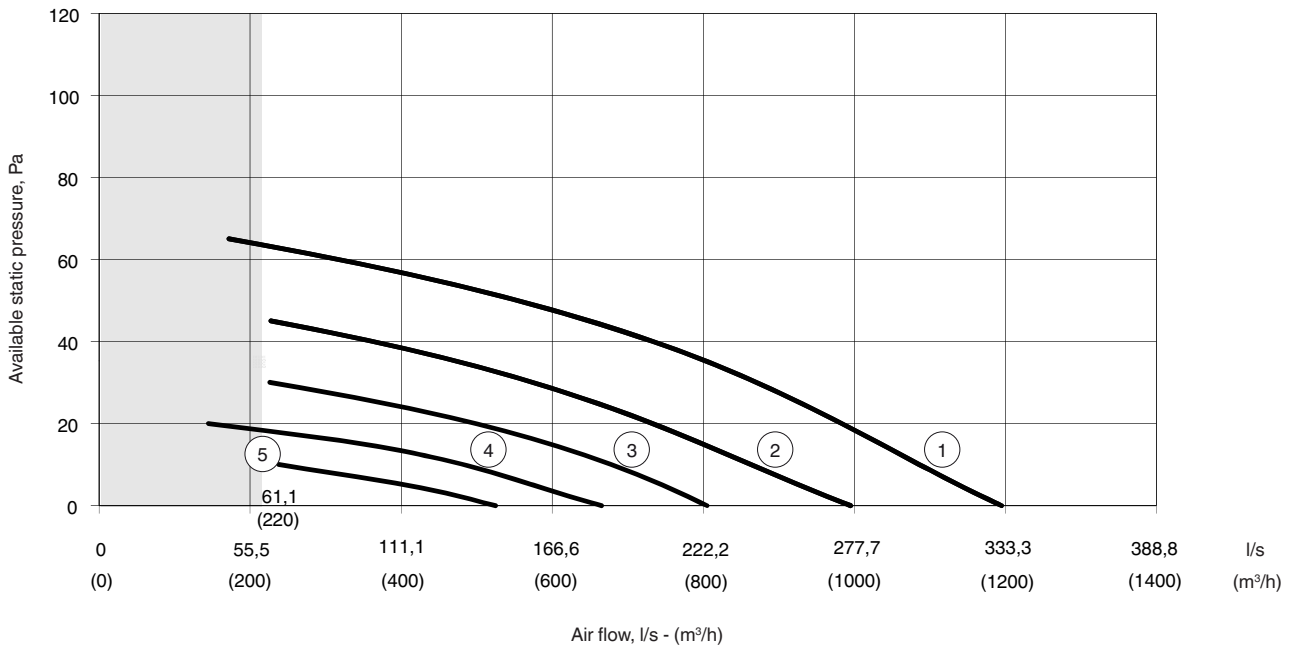
42N_E 39, two-pipe and four-pipe coil



Not allowed with electric heater

- 1 Fan speed: 100%
- 2 Fan speed: 75%
- 3 Fan speed: 60%
- 4 Fan speed: 45%
- 5 Fan speed: 30%

42N_E 49, two-pipe and four-pipe coil

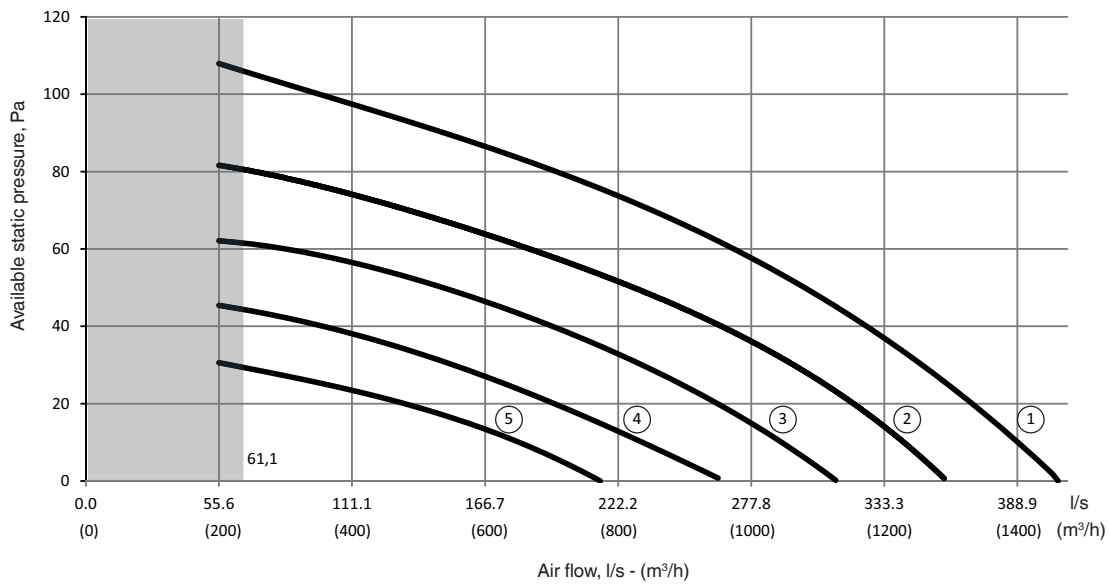


Not allowed with electric heater

- 1 Fan speed: 100%
- 2 Fan speed: 75%
- 3 Fan speed: 60%
- 4 Fan speed: 45%
- 5 Fan speed: 30%

Fan performances, units with LEC motors (continued)

42N_E 69, two-pipe and four-pipe coil



Not allowed with electric heater

- 1 Fan speed: 100%
- 2 Fan speed: 75%
- 3 Fan speed: 60%
- 4 Fan speed: 45%
- 5 Fan speed: 30%

Air throw

The air throw value gives the position where the air velocity is 0,2 m/s when the air is blown horizontally with the grille pointing upwards. Air throw values are given as a guideline only, and change with room dimensions and furniture used in the room.

42N S 15-S 20-S 30-S 45 E 19-E 29-E 39-E 49-E 69	S 26-S 42-S 65	42N_S 15-E 19 two-pipe			42N_S 15-E 19 four-pipe			42N_S 20-E 29			42N_S 26		
		m	l/s	m³/h	m	l/s	m³/h	m	l/s	m³/h	m	l/s	m³/h
Speed 5	-	0.4	35.8	129	0.4	35.4	127	0.9	59.1	213	-	-	-
Speed 4	-	1.7	55.6	200	1.7	56.2	202	1.8	79.8	287	-	-	-
Speed 3	Speed 3	2.3	69.4	250	2.3	69.2	249	2.2	91.9	331	2.2	93.0	335
Speed 2	Speed 2	2.8	83.6	301	2.8	84.6	304	2.7	107.4	387	3.6	148.9	536
Speed 1	Speed 1	3.2	97.2	350	3.2	97.8	352	3.2	127.6	459	4.4	190.3	685

42N S 15-S 20-S 30-S 45 E 19-E 29-E 39-E 49-E 69	S 26-S 42-S 65	42N_S 30-E 39			42N_S 42			42N_S 45-E 49			42N_S 65-E 69		
		m	l/s	m³/h	m	l/s	m³/h	m	l/s	m³/h	m	l/s	m³/h
Speed 5	-	0.5	97.1	350	-	-	-	0.8	145.6	524	0.8	145.6	524
Speed 4	-	2.1	126.0	454	-	-	-	2.9	185.3	667	2.9	185.3	667
Speed 3	Speed 3	3.2	153.2	552	3.0	147.5	531	4.6	223.6	805	5.1	236.9	853
Speed 2	Speed 2	4.3	181.8	654	5.4	221.7	798	6.4	276.7	996	8.0	330.8	1191
Speed 1	Speed 1	5.0	207.2	746	6.6	268.0	965	8.1	332.6	1197	10.2	421.9	1519

Operating limits

Water circuit	Maximum water side pressure: 1400 kPa (142 m WG)	Minimum entering water temperature: 2°C Maximum entering water temperature: 80°C
Indoor temperature		Minimum temperature: 5°C Maximum temperature: 32°C*
Power supply	Nominal supply Operating limits	230 V - 1 ph - 50 Hz Min. 207 V - max. 253 V for units without electric heaters Min. 218 V - max. 244 V for units with electric heaters
Maximum available static pressure	R1 super-high speed, dry coil**	Size 15: 30 Pa Size 19: 20 Pa Size 20: 50 Pa Size 29: 30 Pa Size 30: 50 Pa Size 39: 40 Pa Size 45: 110 Pa Size 49: 65 Pa Size 69: 110 Pa
	R3 medium speed, dry coil**	Size 15: 20 Pa Size 19: 10 Pa Size 20: 35 Pa Size 29: 15 Pa Size 30: 45 Pa Size 39: 25 Pa Size 45: 85 Pa Size 49: 30 Pa
	R5 ultra-low speed, dry coil**	Size 15: 5 Pa Size 19: 5 Pa Size 20: 20 Pa Size 29: 5 Pa Size 30: 40 Pa Size 39: 10 Pa Size 45: 50 Pa Size 49: 10 Pa Size 69: 30 Pa
	R1 high speed, dry coil**	Size 26: 110 Pa Size 42: 120 Pa Size 65: 120 Pa
	R2 medium speed, dry coil**	Size 26: 80 Pa Size 42: 110 Pa Size 65: 110 Pa
	R3 low speed, dry coil**	Size 26: 25 Pa Size 42: 60 Pa Size 65: 75 Pa

* In heating mode with electric heater.

** When using dehumidification, reduce by 5 Pa. For other selectable speeds, refer to the fan performance curves.



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Manufacturer reserves the right to change any product specifications without notice.



Quality and Environment
Management Systems
Approval

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Printed in the European Union.