Carrier

United Technologies

PRODUCT SELECTION DATA



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

Room Fan Coils

42N

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Original instructions

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.

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 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.

  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 from10 °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.

WTC Controller

- Open Communication protocol BACnet or LON
- Communication PID controller
- Large range of user interfaces wall mounted or remote
- Manage the motorized louvers of the grill in manual or automatic
- Manage the EC motor to optimise the comfort
- Manage a CO2 sensor to improve Air Quality
- Optional Light and/or Blinds management modules from same user interface
- Large range of sensors (light, presence, etc.)
- 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 LEC 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
  - 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
  - User interface and infrared remote controller and receiver for NTC or WTC to be ordered separately to ERCD
- 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_, 2-pipe coil		S15					S20					S26		
Fan speed		**R1**	**R2**	**R3**	**R4**	**R5**	**R1**	**R2**	**R3**	**R4**	**R5**	**R1**	**R2**	**R3**
Fan type		One, tangential					One, centrifugal					One, centrifugal		
Air flow	l/s	96	82	69	55	34	126	106	91	79	59	189	148	93
	m³/h	345	296	247	198	123	453	382	327	283	214	681	534	334
Cooling mode*														
Total cooling capacity	kW	1.2	1,09	0,97	0,83	0,58	2,13	2,01	1,78	1,54	1,15	3,52	2,98	2,09
Sensible cooling capacity	kW	1,1	1,01	0,89	0,74	0,5	1,77	1,62	1,42	1,23	0,93	2,84	2,35	1,6
Water flow rate	l/s	0,06	0,05	0,05	0,04	0,03	0,10	0,09	0,09	0,07	0,06	0,17	0,14	0,10
	l/h	210	190	170	140	100	370	340	310	260	200	600	510	360
	m³/h	0,21	0,19	0,17	0,14	0,1	0,37	0,34	0,31	0,26	0,2	0,60	0,51	0,36
Water pressure drop	kPa	12	10	8	6	3	5	5	4	3	2	12	9	5
Heating mode**														
Heating capacity	kW	1,87	1,74	1,48	1,29	0,88	3,01	2,72	2,36	2,05	1,59	4,28	3,68	2,56
Water pressure drop	kPa	10	8	7	5	3	4	4	3	2	1	10	8	4
Water content	l	0.6					1.4					1.4		
Sound levels														
Sound power level	dB(A)	52	47	43	37	29	52	46	43	37	32	61	54	44
Sound pressure level***	dB(A)	43	38	34	28	20	43	37	34	28	23	52	45	35
NR Value		39	34	29	23	16	36	32	29	22	15	47	40	31
Electrical data														
Power input	W	30	23	19	17	16	36	34	31	30	29	45	55	65
Current drawn	A	0.13	0.11	0.09	0.08	0.08	0.16	0.15	0.14	0.13	0.12	0.3	0.25	0.2
Electric heater														
High capacity	W	800					1000					1000		
Current drawn	A	3.48					4.35					4.35		
High capacity	W	500					500					500		
Current drawn	A	2.18					2.18					2.18		
Eurovent energy class FCEER/FCCOP		E/E					E/E					E/E		
Connection diameter	in	3/4 gas					3/4 gas					3/4 gas		

42N_, 2-pipe coil		S30					S42			S45					S65†		
Fan speed		**R1**	**R2**	**R3**	**R4**	**R5**	**R1**	**R2**	**R3**	**R1**	**R2**	**R3**	**R4**	**R5**	**R1**	**R2**	**R3**
Fan type		Two, centrifugal					Two, centrifugal			Two, centrifugal					Two, centrifugal		
Air flow	l/s	205	181	152	126	97	267	221	147	332	275	224	184	146	420	330	236
	m³/h	739	651	547	454	349	960	795	530	1195	991	805	663	524	1511	1187	851
Cooling mode*																	
Total cooling capacity	kW	3,68	3,34	2,91	2,45	1,92	4,44	3,93	3	5,32	4,76	3,94	3,25	2,58	6,24	5,4	3,85
Sensible cooling capacity	kW	3,04	2,73	2,35	1,97	1,4	3,64	3,17	2,33	4,58	4	3,3	2,73	2,1	5,15	4,5	3,2
Water flow rate	l/s	0,18	0,16	0,14	0,12	0,09	0,21	0,19	0,14	0,25	0,23	0,19	0,16	0,12	0,30	0,26	0,18
	l/h	630	570	500	420	330	760	670	510	910	820	680	560	440	1070	930	660
	m³/h	0,63	0,57	0,50	0,42	0,33	0,76	0,67	0,51	0,91	0,82	0,68	0,56	0,44	1,07	0,93	0,66
Water pressure drop	kPa	16	14	11	8	5	22	18	11	11	9	7	4	3	14	11	6
Heating mode**																	
Heating capacity	kW	4,77	4,33	3,78	3,25	2,62	6,4	5,57	4,07	8,04	7	5,84	4,9	3,96	9,5	8,03	6,08
Water pressure drop	kPa	13	11	8	6	4	18	14	9	9	7	5	4	3	12	9	5
Water content	l	1.8					1.8			2.1					2.1		
Sound levels																	
Sound power level	dB(A)	56	51	47	42	36	62	57	47	62	57	55	47	41	68	62	54
Sound pressure level***	dB(A)	47	42	38	33	27	53	48	38	53	48	46	38	32	59	53	45
NR Value		41	37	33	28	22	48	43	34	48	43	41	34	28	54	49	40
Electrical data																	
Power input	W	57	50	46	44	42	100	75	45	129	92	83	77	69	165	125	90
Current drawn	A	0.25	0.23	0.21	0.2	0.19	0.45	0.35	0.21	0.55	0.4	0.37	0.34	0.31	0.7	0.6	0.4
Electric heater																	
High capacity	W	2000					2000			2000					2000		
Current drawn	A	8.7					8.7			8.7					8.7		
High capacity	W	1000					1000			1000					1000		
Current drawn	A	4.35					4.35			4.35					4.35		
Eurovent energy class FCEER/FCCOP		E/E					E/E			E/E					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_, 4-pipe coil		S15					S20					S26		
Fan speed		**R1**	**R2**	**R3**	**R4**	**R5**	**R1**	**R2**	**R3**	**R4**	**R5**	**R1**	**R2**	**R3**
Fan type		One, tangential					One, centrifugal					One, centrifugal		
Air flow	l/s	96	82	69	55	34	126	106	91	79	59	189	148	93
	m³/h	345	296	247	198	123	453	382	327	283	214	681	534	334
Cooling mode*														
Total cooling capacity	kW	1,46	1,3	1,15	1,04	0,75	2,04	1,89	1,65	1,47	1,19	2,7	2,29	1,67
Sensible cooling capacity	kW	1,25	1,13	0,98	0,86	0,6	1,71	1,55	1,35	1,19	0,96	2,34	1,94	1,37
Water flow rate	l/s	0,07	0,06	0,06	0,05	0,04	0,10	0,09	0,08	0,07	0,06	0,13	0,11	0,08
	l/h	250	220	200	180	130	350	320	280	250	210	460	390	290
	m³/h	0,25	0,22	0,20	0,18	0,13	0,35	0,32	0,28	0,25	0,21	0,46	0,39	0,29
Water pressure drop	kPa	17	14	11	9	5	5	5	4	3	2	8	5	3
Water content	l	0.6					1.1					1.1		
Heating mode**														
Heating capacity	kW	1,44	1,29	1,15	0,95	0,58	2,89	2,59	2,41	2,23	1,81	3,76	3,21	2,49
Water flow rate	l/s	0,04	0,03	0,03	0,02	0,01	0,07	0,06	0,06	0,06	0,04	0,09	0,08	0,06
	l/h	130	110	100	80	50	250	230	210	200	160	330	280	220
	m³/h	0,13	0,11	0,10	0,08	0,05	0,25	0,23	0,21	0,20	0,16	0,33	0,28	0,22
Water pressure drop	kPa	3	2	2	1	1	10	8	7	6	4	15	11	7
Water content	l	0.2					0.3					0.3		
Sound levels														
Sound power level	dB(A)	52	47	43	37	29	52	46	43	37	32	61	54	44
Sound pressure level***	dB(A)	43	38	34	28	20	43	37	34	28	23	52	45	35
NR Value		39	34	29	23	16	36	32	29	22	15	47	40	31
Electrical data														
Power input	W	30	23	19	17	16	36	34	31	30	29	45	55	65
Current drawn	A	0.13	0.11	0.09	0.08	0.08	0.16	0.15	0.14	0.13	0.12	0.3	0.25	0.2
Eurovent energy class FCEER/FCCOP		E/E					E/E					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_, 4-pipe coil		S30					S42			S45					S65†		
Fan speed		**R1**	**R2**	**R3**	**R4**	**R5**	**R1**	**R2**	**R3**	**R1**	**R2**	**R3**	**R4**	**R5**	**R1**	**R2**	**R3**
Fan type		Two, centrifugal					Two, centrifugal			Two, centrifugal					Two, centrifugal		
Air flow	l/s	205	181	152	126	97	267	221	147	332	275	224	184	146	420	330	236
	m³/h	739	651	547	454	349	960	795	530	1195	991	805	663	524	1511	1187	851
Cooling mode*																	
Total cooling capacity	kW	3,2	2,97	2,72	2,41	1,98	3,81	3,41	2,66	4,82	4,28	3,8	3,25	2,69	5,75	4,97	4
Sensible cooling capacity	kW	2,71	2,49	2,23	1,94	1,57	3,24	2,84	2,14	4,13	3,61	3,13	2,65	2,17	4,88	4,1	3,2
Water flow rate	l/s	0,15	0,14	0,13	0,11	0,09	0,18	0,16	0,13	0,23	0,21	0,18	0,16	0,13	0,28	0,24	0,19
	l/h	550	510	470	410	340	650	580	460	830	740	650	560	460	990	850	700
	m³/h	0,55	0,51	0,47	0,41	0,34	0,65	0,58	0,46	0,83	0,74	0,65	0,56	0,46	0,99	0,85	0,70
Water pressure drop	kPa	13	11	10	8	5	15	13	8	26	21	17	13	9	36	28	19
Water content	l	1.5					1.5			1.8					1,8		
Heating mode**																	
Heating capacity	kW	4,16	3,76	3,47	3,18	2,7	5,02	4,43	3,39	6,05	5,58	4,95	4,49	3,86	7,16	6,06	5,07
Water flow rate	l/s	0,10	0,09	0,08	0,08	0,07	0,12	0,11	0,08	0,15	0,14	0,12	0,11	0,09	0,18	0,15	0,13
	l/h	370	330	300	280	240	440	390	300	530	490	440	390	340	630	530	450
	m³/h	0,37	0,33	0,30	0,28	0,24	0,44	0,39	0,30	0,53	0,49	0,44	0,39	0,34	0,63	0,53	0,45
Water pressure drop	kPa	22	18	16	14	10	31	25	15	46	40	33	27	21	63	47	34
Water content	l	0.4					0.4			0.5					0.5		
Sound levels																	
Sound power level	dB(A)	56	51	47	42	36	62	57	47	62	57	55	47	41	68	62	54
Sound pressure level***	dB(A)	47	42	38	33	27	53	48	38	53	48	46	38	32	59	53	45
NR Value		41	37	33	28	22	48	43	34	48	43	41	34	28	54	49	40
Electrical data																	
Power input	W	57	50	46	44	42	100	75	45	129	92	83	77	69	165	125	90
Current drawn	A	0.25	0.23	0.21	0.2	0.19	0.45	0.35	0.21	0.55	0.4	0.37	0.34	0.31	0.7	0.6	0.4
"Eurovent energy class FCEER/FCCOP"		E/E					E/E			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 differnce = 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_, 2-pipe coil		E19					E29					E39				
Fan speed	**%**	**100**	**80**	**60**	**40**	**20**	**100**	**80**	**60**	**40**	**20**	**100**	**80**	**60**	**40**	**20**
Fan type		One, tangential					One, centrifugal					Two, centrifugal				
Air flow	l/s	96	82	69	55	34	126	106	91	79	59	205	181	152	126	97
	m³/h	345	296	247	198	123	453	382	327	283	214	739	651	547	454	349
Cooling mode*																
Total cooling capacity	kW	1.2	1,09	0,97	0,83	0,58	2,13	2,01	1,78	1,54	1,15	3,68	3,34	2,91	2,45	1,92
Sensible cooling capacity	kW	1,1	1,01	0,89	0,74	0,5	1,77	1,62	1,42	1,23	0,93	3,04	2,73	2,35	1,97	1,4
Water flow rate	l/s	0,06	0,05	0,05	0,04	0,03	0,10	0,09	0,09	0,07	0,06	0,18	0,16	0,14	0,12	0,09
	l/h	210	190	170	140	100	370	340	310	260	200	630	570	500	420	330
	m³/h	0,21	0,19	0,17	0,14	0,1	0,37	0,34	0,31	0,26	0,2	0,63	0,57	0,50	0,42	0,33
Water pressure drop	kPa	12	10	8	6	3	5	5	4	3	2	16	14	11	8	5
Heating mode**																
Heating capacity	kW	1,87	1,74	1,48	1,29	0,88	3,01	2,72	2,36	2,05	1,59	4,77	4,33	3,78	3,25	2,62
Water pressure drop	kPa	10	8	7	5	3	4	4	3	2	1	13	11	8	6	4
Water content	l	0.6					1.4					1.8				
Sound levels																
Sound power level	dB(A)	52	47	43	37	29	52	46	43	37	32	56	51	47	42	36
Sound pressure level***	dB(A)	43	38	34	28	20	43	37	34	28	23	47	42	38	33	27
NR Value		39	34	29	23	16	36	32	29	22	15	41	37	33	28	22
Electrical data																
Power input	W	14	10	7	4	3	17	12	8	4	3	39	26	17	11	6
Current drawn	A	0.15	0,14	0,13	0,12	0,10	0.16	0,13	0,12	0,11	0,10	0.29	0.21	0.16	0.12	0.1
Electric heater																
High capacity	W	800					1000					2000				
Current drawn	A	3.48					4.35					8.7				
High capacity	W	500					500					1000				
Current drawn	A	2.18					2.18					4.35				
Eurovent energy class FCEER/FCCOP		B/B					A/A					A/A				
Connection diameter	in	3/4 gas					3/4 gas					3/4 gas				

42N_, 2-pipe coil		E49					E69				
Fan speed		**100**	**80**	**60**	**40**	**20**	**100**	**80**	**60**	**40**	**20**
Fan type		Two, centrifugal					Two, centrifugal				
Air flow	l/s	332	323	314	306	385	410	399	388	378	476
	m³/h	1195	991	805	663	524	1476	1314	1134	954	792
Cooling mode*											
Total cooling capacity	kW	5,32	4,76	3,94	3,25	2,58	6	5,52	4,85	4,26	3,57
Sensible cooling capacity	kW	4,58	4	3,3	2,73	2,1	5,1	4,7	4,1	3,57	2,97
Water flow rate	l/s	0,25	0,23	0,19	0,16	0,12	0,29	0,26	0,23	0,20	0,18
	l/h	910	820	680	560	440	1040	950	840	730	630
	m³/h	0,91	0,82	0,68	0,56	0,44	1,04	0,95	0,84	0,73	0,63
Water pressure drop	kPa	11	9	7	4	3	15	13	11	8	6
Heating mode**											
Heating capacity	kW	8,04	7	5,84	4,9	3,96	9,3	8,56	7,55	6,67	5,65
Water pressure drop	kPa	9	7	5	4	3	12	10	9	6	5
Water content	l	2.1					2.1				
Sound levels											
Sound power level	dB(A)	62	57	55	47	41	68	65	62	57	53
Sound pressure level***	dB(A)	53	48	46	38	32	59	56	53	48	44
NR Value		48	43	41	34	28	54	51	48	43	40
Electrical data											
Power input	W	64	41	25	14	8	127	90	62	40	25
Current drawn	A	0.52	0.35	0.22	0.15	0.10	0.94	0.68	0.46	0.31	0.21
Electric heater											
High capacity	W	2000					2000				
Current drawn	A	8.7					8.7				
High capacity	W	1000					1000				
Current drawn	A	4.35					4.35				
Eurovent energy class FCEER/FCCOP		A/A					C/C				
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_, 4-pipe coil		E19					E29					E39				
Fan speed		**100**	**80**	**60**	**40**	**20**	**100**	**80**	**60**	**40**	**20**	**100**	**80**	**60**	**40**	**20**
Fan type		One, tangential					One, centrifugal					Two, centrifugal				
Air flow	l/s	96	93	91	88	111	126	122	119	116	146	205	200	194	189	238
	m^3/h	345	296	247	198	123	453	382	327	283	214	739	651	547	454	349
Cooling mode*																
Total cooling capacity	kW	1,46	1,3	1,15	1,04	0,75	2,04	1,89	1,65	1,47	1,19	3,2	2,97	2,72	2,41	1,98
Sensible cooling capacity	kW	1,25	1,13	0,98	0,86	0,6	1,71	1,55	1,35	1,19	0,96	2,71	2,49	2,23	1,94	1,57
Water flow rate	l/s	0,07	0,06	0,06	0,05	0,04	0,10	0,09	0,08	0,07	0,06	0,15	0,14	0,13	0,11	0,09
	l/h	250	220	200	180	130	350	320	280	250	210	550	510	470	410	340
	m^3/h	0,25	0,22	0,20	0,18	0,13	0,35	0,32	0,28	0,25	0,21	0,55	0,51	0,47	0,41	0,34
Water pressure drop	kPa	17	14	11	9	5	5	5	4	3	2	13	11	10	8	5
Water content	l	0.6					1.1					1.5				
Heating mode**																
Heating capacity	kW	1,44	1,29	1,15	0,95	0,58	2,89	2,59	2,41	2,23	1,81	4,16	3,76	3,47	3,18	2,7
Water flow rate	l/s	0,04	0,03	0,03	0,02	0,01	0,07	0,06	0,06	0,06	0,04	0,10	0,09	0,08	0,08	0,07
	l/h	130	110	100	80	50	250	230	210	200	160	370	330	300	280	240
	m^3/h	0,13	0,11	0,10	0,08	0,05	0,25	0,23	0,21	0,20	0,16	0,37	0,33	0,30	0,28	0,24
Water pressure drop	kPa	3	2	2	1	1	10	8	7	6	4	22	18	16	14	10
Water content	l	0.2					0.3					0.4				
Sound levels																
Sound power level	dB(A)	52	47	43	37	29	52	46	43	37	32	56	51	47	42	36
Sound pressure level***	dB(A)	43	38	34	28	20	43	37	34	28	23	47	42	38	33	27
NR Value		39	34	29	23	16	36	32	29	22	15	41	37	33	28	22
Electrical data																
Power input	W	14	10	7	4	3	17	12	8	4	3	39	26	17	11	6
Current drawn	A	0.15	0,14	0,13	0,12	0,10	0.16	0,13	0,12	0,11	0,10	0.29	0.21	0.16	0.12	0.1
Eurovent energy class FCEER/FCCOP		A/B					A/A					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_, 4-pipe coil		E49					E69				
Fan speed		**100**	**80**	**60**	**40**	**20**	**100**	**80**	**60**	**40**	**20**
Fan type		Two, centrifugal					Two, centrifugal				
Air flow	l/s	332	275	224	184	146	410	399	388	378	476
	m^3/h	1195	991	805	663	524	1476	1314	1134	954	792
Cooling mode*											
Total cooling capacity	kW	4,82	4,28	3,8	3,25	2,69	5,47	5,19	4,75	4,34	3,8
Sensible cooling capacity	kW	4,13	3,61	3,13	2,65	2,17	4,65	4,36	3,9	3,53	3,05
Water flow rate	l/s	0,23	0,21	0,18	0,16	0,13	0,26	0,25	0,23	0,21	0,19
	l/h	830	740	650	560	460	940	890	820	750	670
	m^3/h	0,83	0,74	0,65	0,56	0,46	0,94	0,89	0,82	0,75	0,67
Water pressure drop	kPa	26	21	17	13	9	31	27	23	19	20
Water content	l	1.8					1.8				
Heating mode**											
Heating capacity	kW	6,05	5,58	4,95	4,49	3,86	6,99	6,57	6,04	5,43	4,81
Water flow rate	l/s	0,15	0,14	0,12	0,11	0,09	0,17	0,16	0,15	0,13	0,12
	l/h	530	490	440	390	340	610	580	530	480	420
	m^3/h	0,53	0,49	0,44	0,39	0,34	0,61	0,58	0,53	0,48	0,42
Water pressure drop	kPa	46	40	33	27	21	63	56	49	40	32
Water content	l	0.5					0.5				
Sound levels											
Sound power level	dB(A)	62	57	55	47	41	68	65	62	57	53
Sound pressure level***	dB(A)	53	48	46	38	32	59	56	53	48	44
NR Value		48	43	41	34	28	54	51	48	43	40
Electrical data											
Power input	W	64	41	25	14	8	127	90	62	40	25
Current drawn	A	0.52	0.35	0.22	0.15	0.10	0.94	0.68	0.46	0.31	0.21
Eurovent energy class FCEER/FCCOP		A/A					C/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).

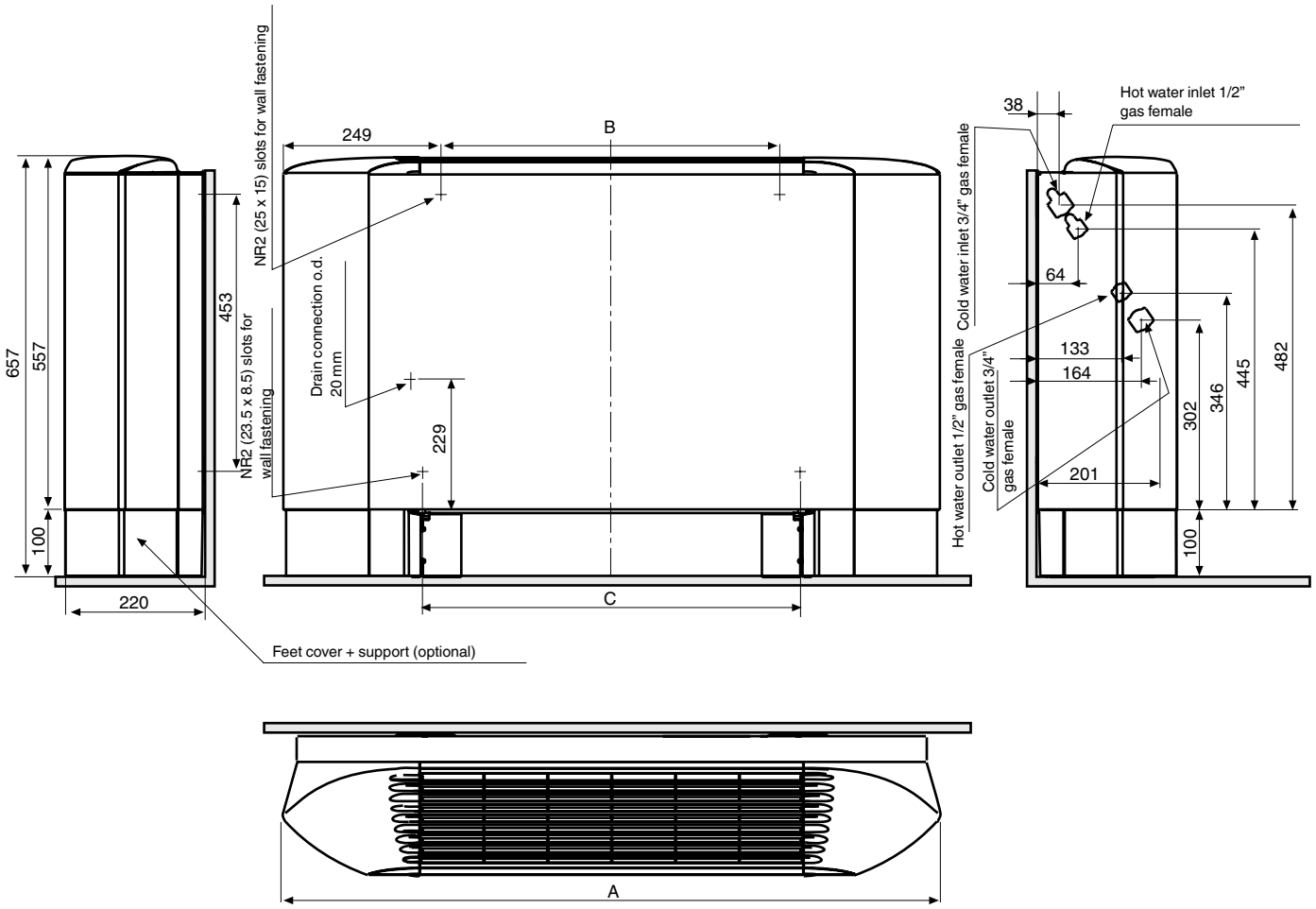
Sound data

Global sound power levels by frequancy band (dB)							
Multi-speed model	**Speed**	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**dB(a)**
42N_S15	R5	36,7	35,6	23,4	14,2	10,7	29
	R4	35,8	42,7	34,8	29,6	17,6	37
	R3	41,0	47,2	40,8	37,8	26,2	43
	R2	44,5	49,2	45,7	42,7	33,3	47
	R1	49,8	52,9	50,3	48,0	40,1	52
42N_S20	R5	44,1	34,9	28,4	16,1	9,9	32
	R4	45,5	40,1	35,5	27,0	17,3	37
	R3	49,8	45,5	42,1	36,2	27,8	43
	R2	50,7	48,3	45,3	40,4	34,3	46
	R1	51,2	52,0	48,8	44,3	40,7	52
42N_S26	R3	41,0	45,0	44,0	38,0	28,0	44
	R2	52,0	54,0	53,0	48,0	45,0	54
	R1	58,0	61,0	60,0	56,0	52,0	61
42N_S30	R5	42,1	40,8	35,3	26,4	18,3	36
	R4	45,3	45,7	41,5	34,9	26,4	42
	R3	50,1	50,0	46,1	41,0	33,8	47
	R2	52,9	54,1	49,8	45,1	39,6	51
	R1	56,6	57,4	53,8	48,9	44,6	56
42N_S42	R3	46,0	49,0	47,0	41,0	34,0	47
	R2	56,0	58,0	56,0	52,0	47,0	57
	R1	61,0	63,0	61,0	57,0	52,0	62
42N_S45	R5	40,6	44,3	40,8	34,5	27,0	41
	R4	46,6	49,6	46,6	41,3	34,9	47
	R3	55,4	57,3	54,1	49,5	44,8	55
	R2	56,5	59,6	55,5	51,3	47,4	57
	R1	62,3	64,4	60,4	56,3	52,7	62
42N_S65	R3	53,0	55,0	53,0	48,0	43,0	54
	R2	62,0	63,0	61,0	56,0	52,0	62
	R1	69,0	70,0	66,0	62,0	58,0	68

Global sound power levels by frequancy band (dB)							
LEC model	**Motor voltage**	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**dB(a)**
42N_E19	2V	36,7	35,6	23,4	14,2	10,7	29
	4V	35,8	42,7	34,8	29,6	17,6	37
	6V	41,0	47,2	40,8	37,8	26,2	43
	8V	44,5	49,2	45,7	42,7	33,3	47
	10V	49,8	52,9	50,3	48,0	40,1	52
42N_E29	2V	44,1	34,9	28,4	16,1	9,9	32
	4V	45,5	40,1	35,5	27,0	17,3	37
	6V	49,8	45,5	42,1	36,2	27,8	43
	8V	50,7	48,3	45,3	40,4	34,3	46
	10V	51,2	52,0	48,8	44,3	40,7	52
42N_E39	2V	42,1	40,8	35,3	26,4	18,3	36
	4V	45,3	45,7	41,5	34,9	26,4	42
	6V	50,1	50,0	46,1	41,0	33,8	47
	8V	52,9	54,1	49,8	45,1	39,6	51
	10V	56,6	57,4	53,8	48,9	44,6	56
42N_E49	2V	40,6	44,3	40,8	34,5	27,0	41
	4V	46,6	49,6	46,6	41,3	34,9	47
	6V	55,4	57,3	54,1	49,5	44,8	55
	8V	56,5	59,6	55,5	51,3	47,4	57
	10V	62,3	64,4	60,4	56,3	52,7	62
42N_E69	2V	53,4	55,3	52,1	47,5	42,8	53
	4V	56,5	59,6	55,5	51,3	47,4	57
	6V	62,3	64,4	60,4	56,3	52,7	62
	8V	65,8	67,3	63,3	59,3	55,5	65
	10V	69,0	70,0	66,0	62,0	58,0	68

Dimensions, vertical units with cabinet

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

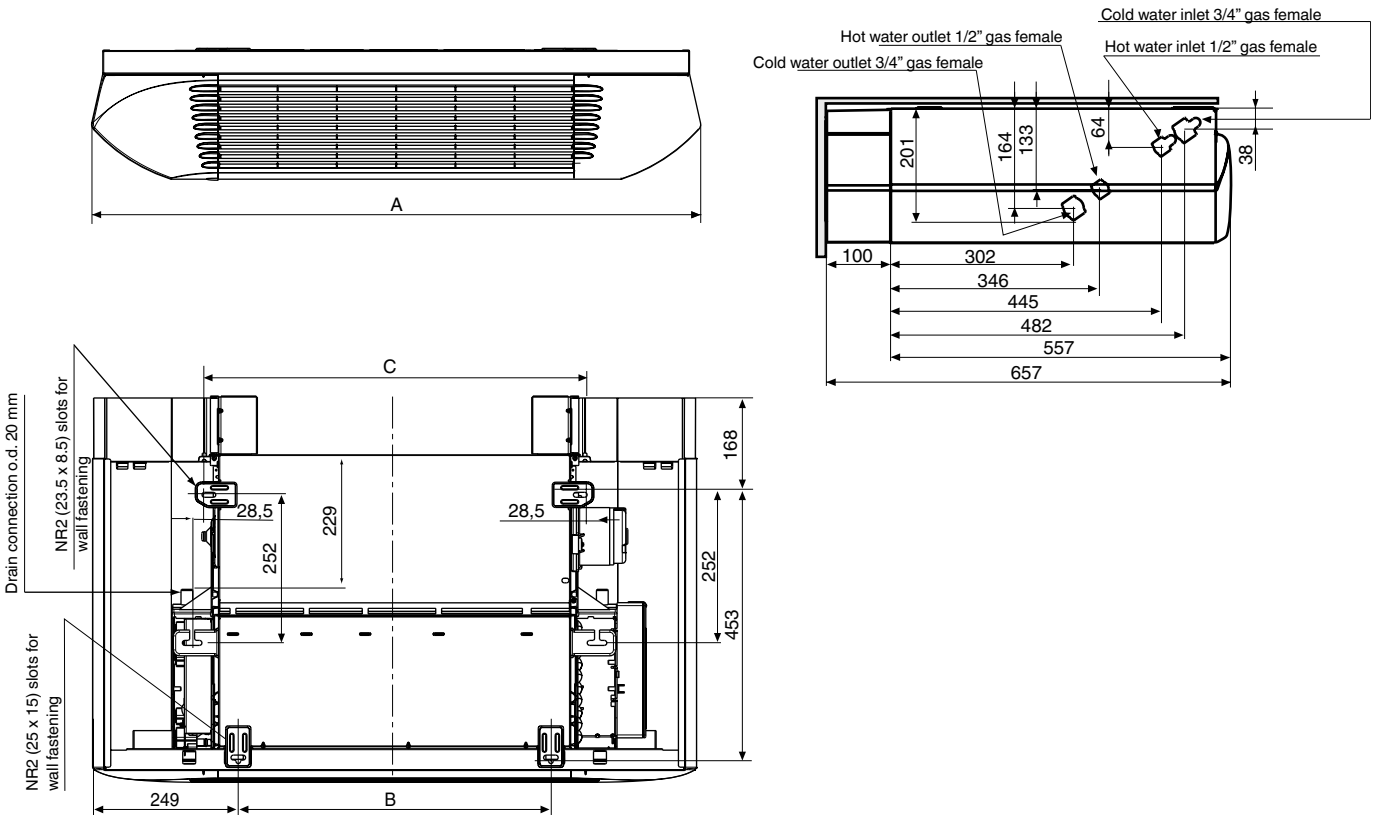


All dimensions are in mm.

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

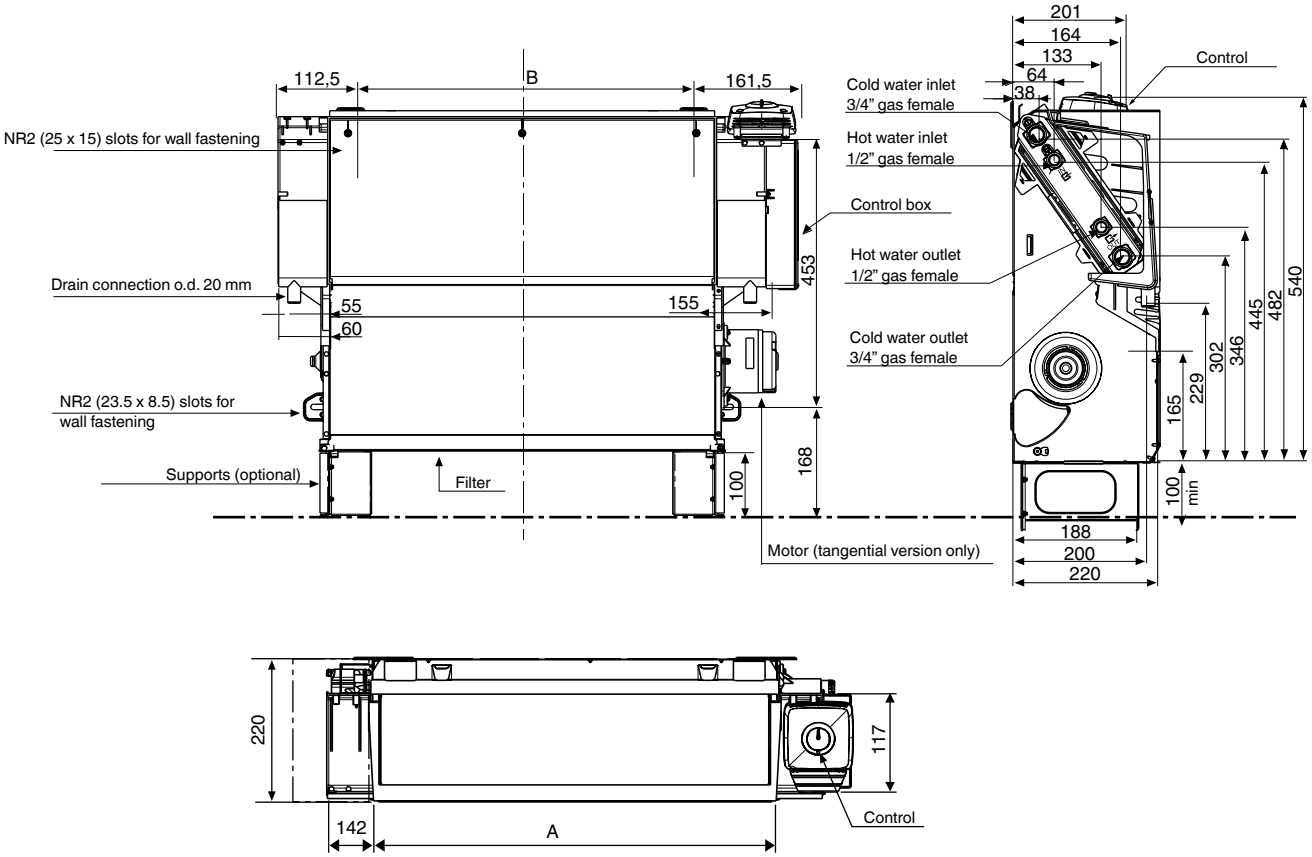


All dimensions are in mm.

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

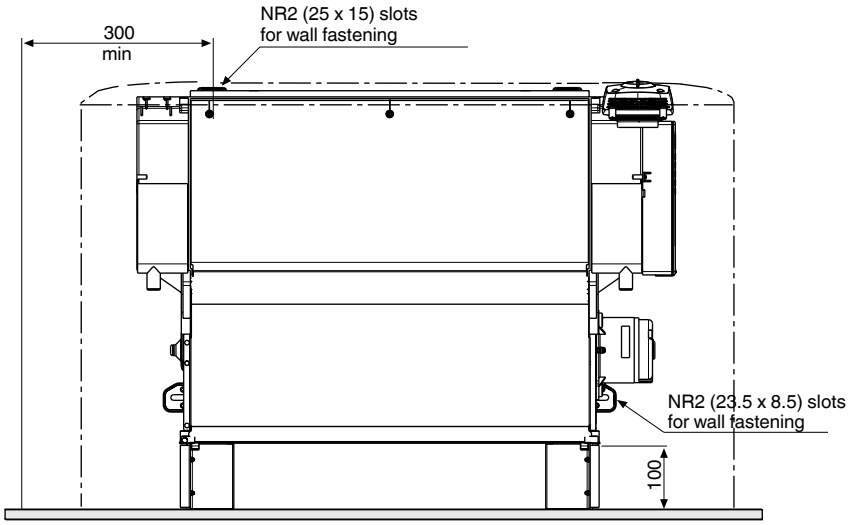


All dimensions are in mm.

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

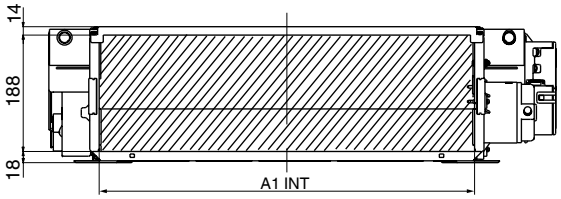
Typical mounting arrangements

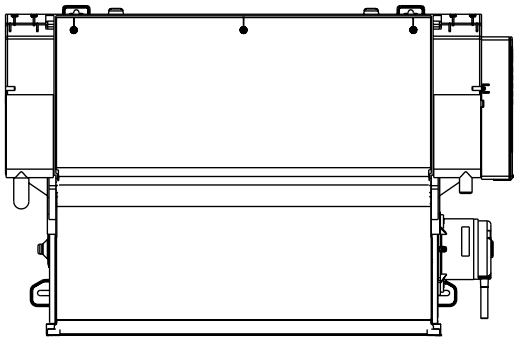
Vertical wall-mounted units

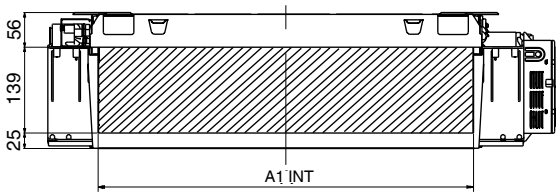


All dimensions are in mm.

Air inlet and outlet opening dimensions

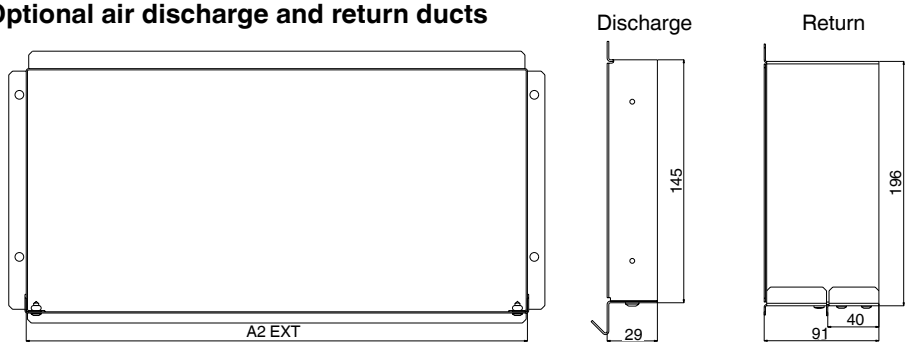






All dimensions are in mm.	
42N	**A1 INT**
S 15-E 19	397
S 20-S 26-E 29	597
S 30-E 39-S 42	797
S 45-E 49-S 65-E 69	997

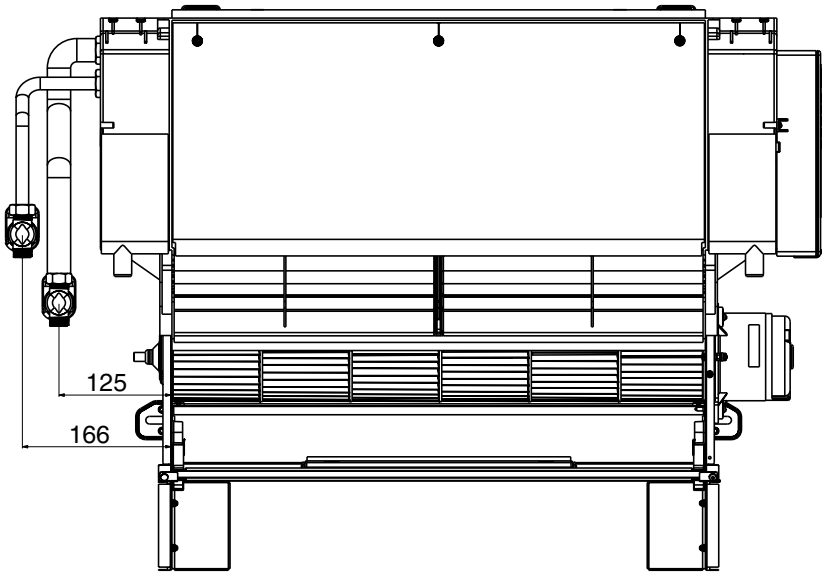
Optional air discharge and return ducts

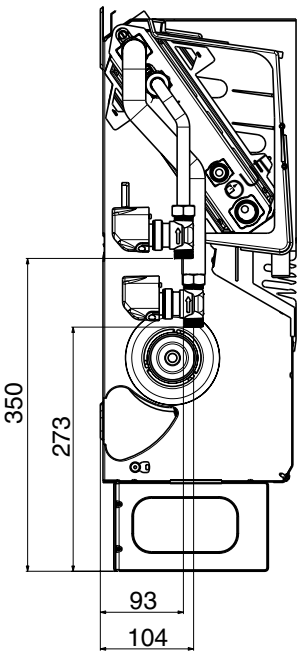


All dimensions are in mm.	
42N	**A2 EXT**
S 15-E 19	402
S 20-S 26-E 29	602
S 30-E 39-S 42	802
S 45-E 49-S 65-E 69	1002

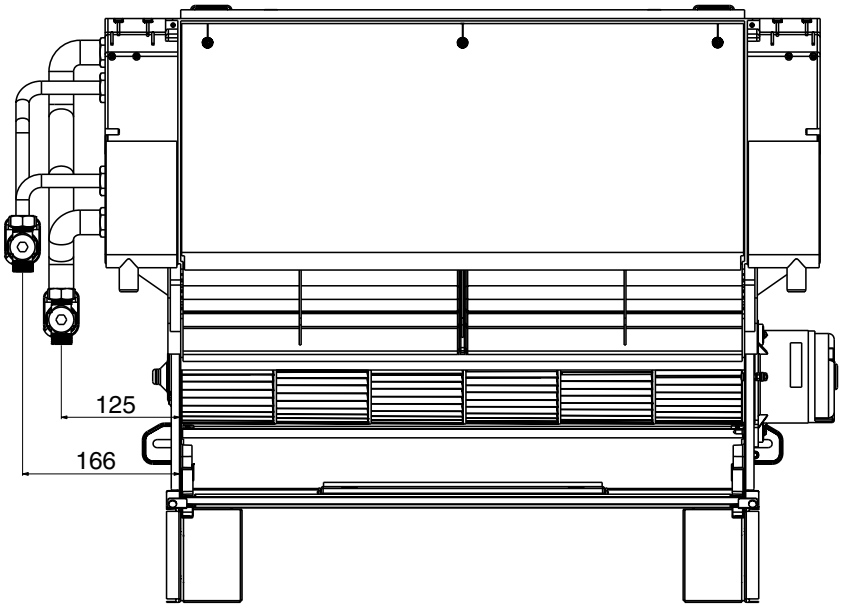
Valves

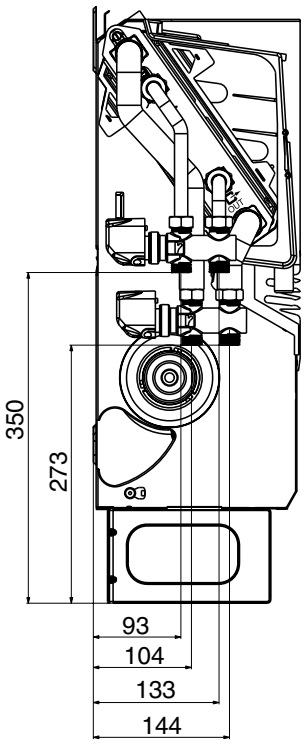
Two-way valves





Four-way valves





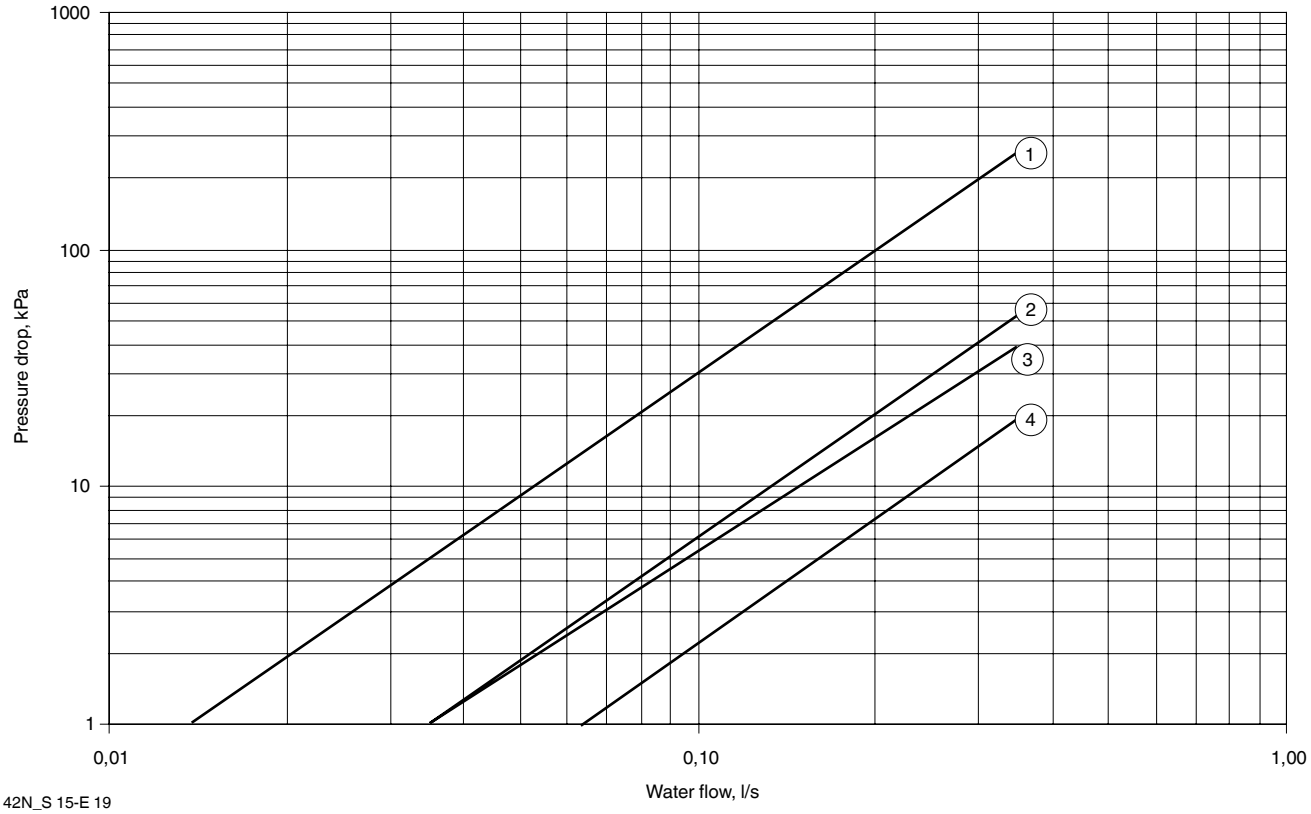
All dimensions are in mm.

Unit option (10th digit)		H	H	H	H	G	G	G	G
Valve kit		4-way valve 42N9185	4-way valve 42N9186	4-way valve 42N9187	4-way valve 42N9188	2-way valve 42N9194	2-way valve 42N9195	2-way valve 42N9196	2-way valve 42N9197
Description		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
		-	-	-	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.

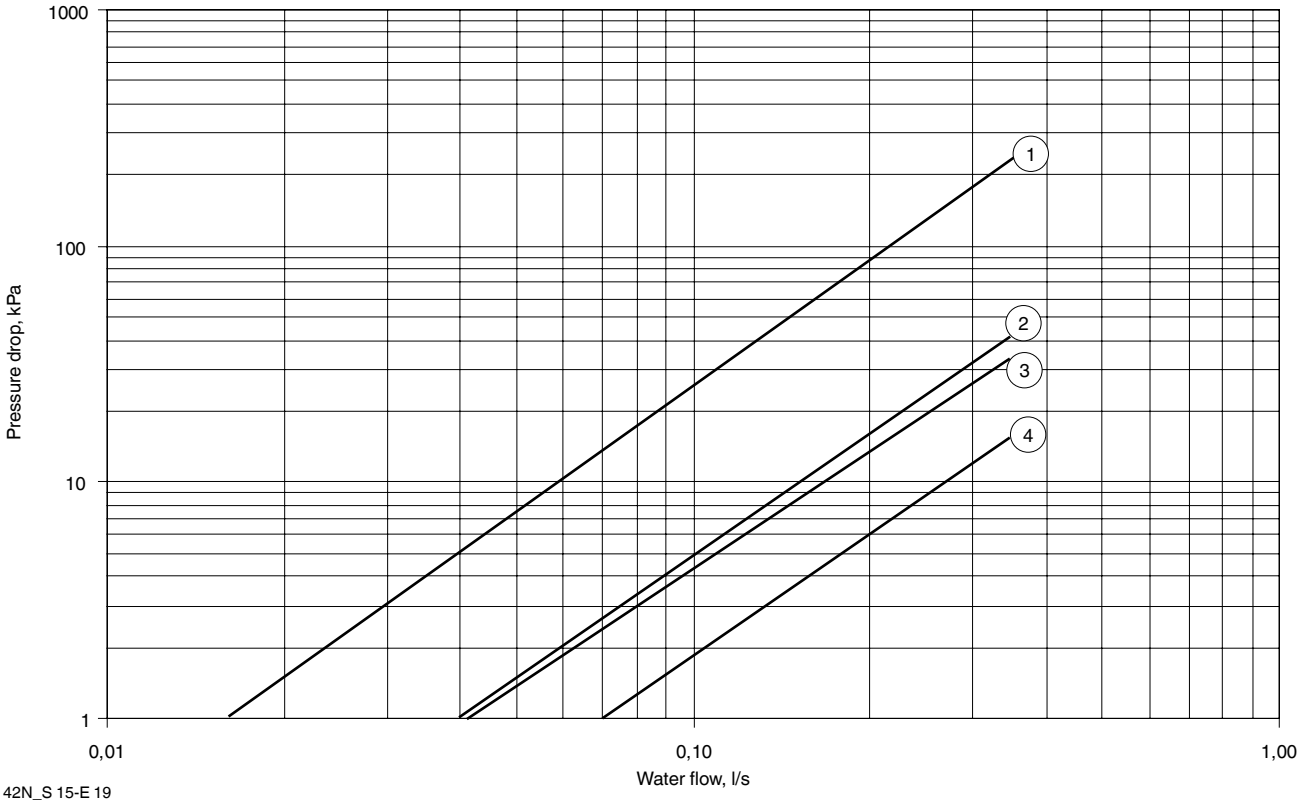
Two-pipe coil pressure drop

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

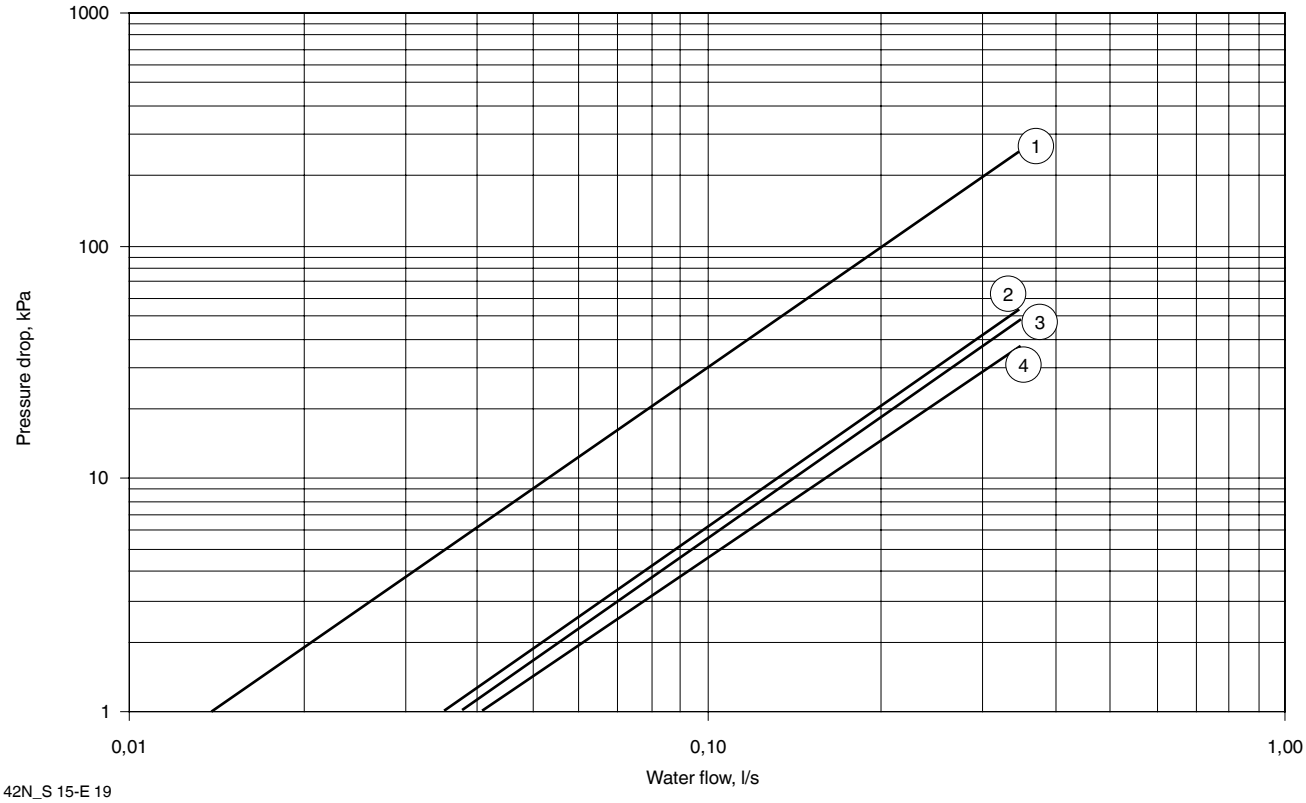
Heating conditions (entering water temperature = 50°C)



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

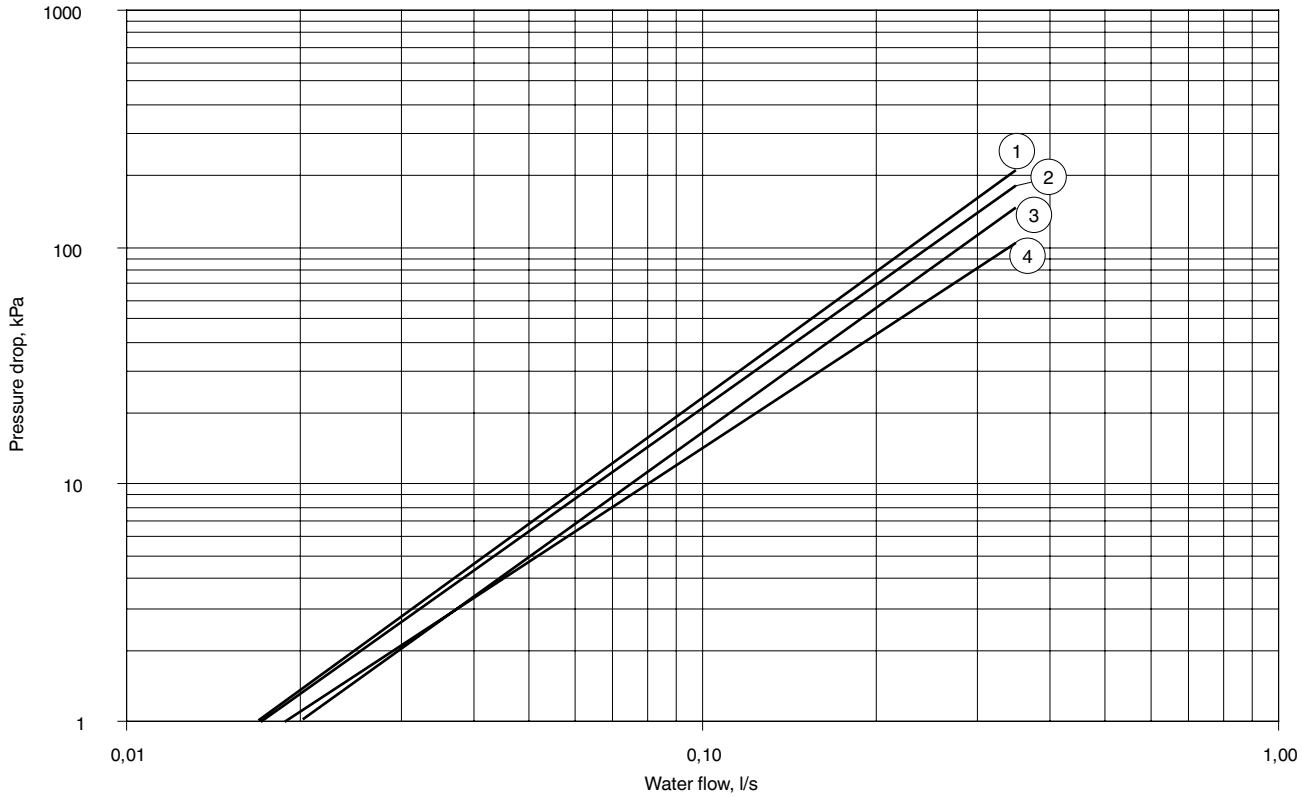
Four-pipe coil pressure drop

Cooling conditions (entering water temperature = 7°C)



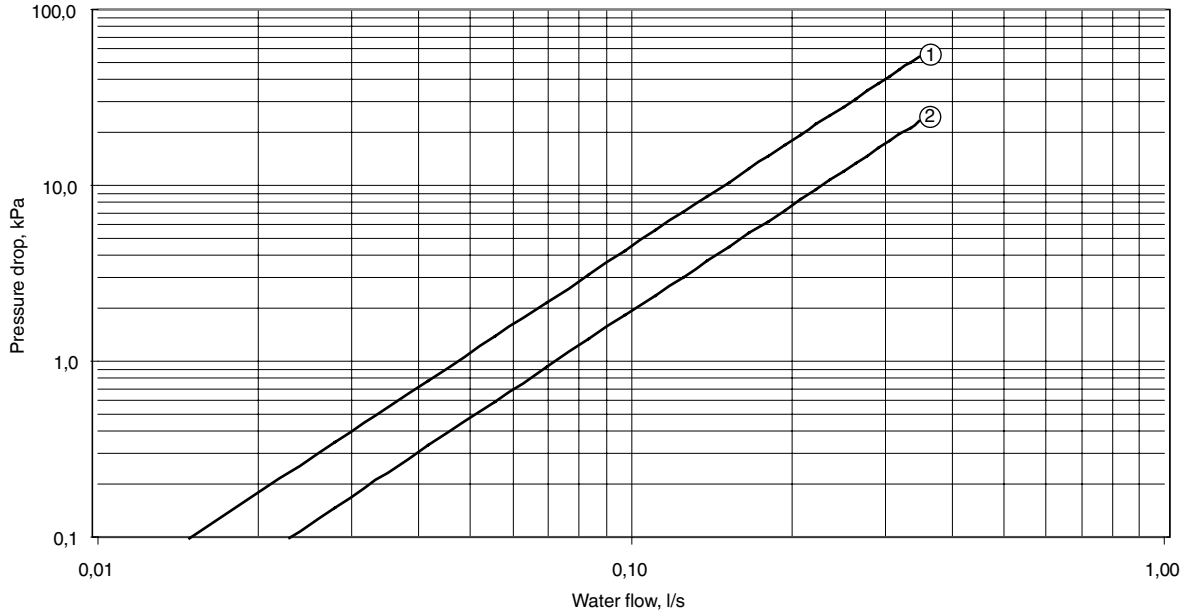
1 42N_S 15-E 19
2 42N_S 45-E 49-S 65-E 69
3 42N_S 30-E 39-S 42
4 42N_S 20-S 26-E 29

Heating conditions (entering water temperature = 70°C)



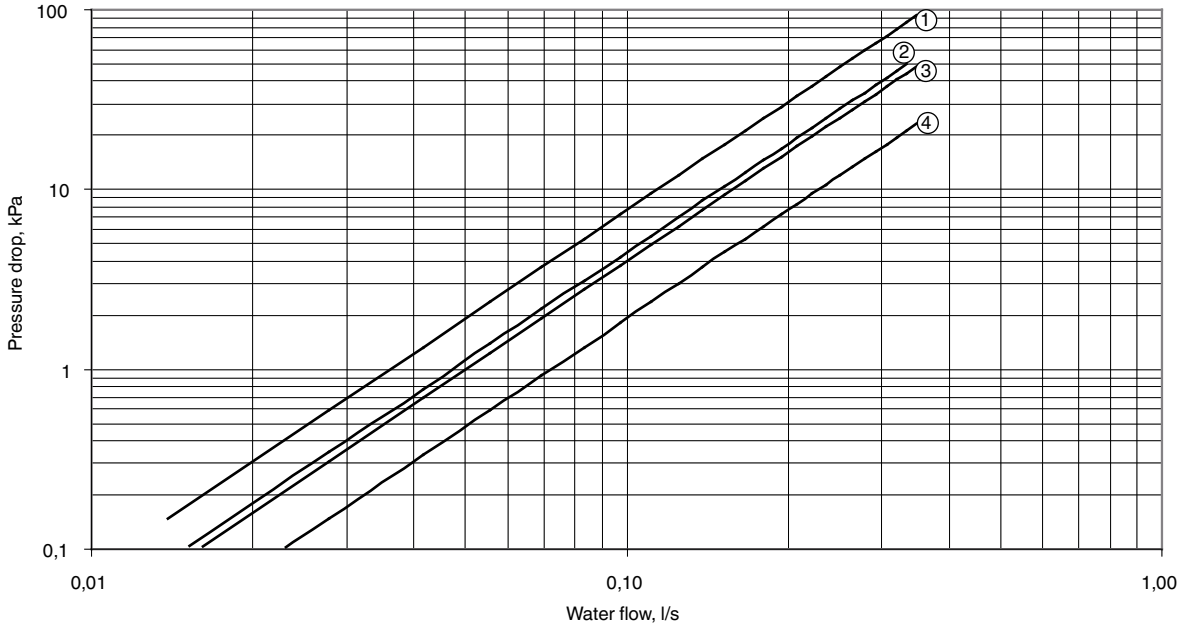
1 42N_S 45-E 49-S 65-E 69
2 42N_S 30-E 39-S 42
3 42N_S 20-S 26-E 29
4 42N_S 15-E 19

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.

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	1	2	3	4	5	1	2	3	4	5
Entering air temperature 17°C wb / 23°C db																																	
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	4.13	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	1.94	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	0.98	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	3.23	2.86	2.13	3.93	3.45	2.92	2.49	1.96	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	2.60	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	0.53	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	0.48	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	0.28	0.25	0.20	0.36	0.34	0.30	0.43	0.40	0.36	0.33	0.26	0.40	0.42	0.43	0.37	0.30

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-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	1	2	3	4	5	1	2	3	4	5
Entering air temperature 19°C wb / 25°C db																																	
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	5.69	5.23	4.57	3.89	3.15	6.96	6.10	4.46	8.49	7.43	6.29	5.42	4.40	10.12	9.32	8.51	7.50	6.49
		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	3.49	3.19	2.66	2.23	1.61	4.32	3.70	2.64	5.12	4.52	3.78	3.23	2.52	5.77	5.48	5.18	4.46	3.73
5	5	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	4.58	4.27	3.74	3.17	2.57	5.57	4.95	3.71	6.72	5.90	4.96	4.19	3.18	7.74	7.24	6.73	5.76	4.78
		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	3.03	2.78	2.32	1.94	1.39	3.74	3.22	2.32	4.42	3.89	3.23	2.72	2.05	4.91	4.69	4.47	3.78	3.09
5	7	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	3.35	3.17	2.71	2.27	1.87	4.16	3.71	2.79	4.72	4.07	3.39	2.80	2.00	5.29	5.00	4.71	3.86	3.01
		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	2.53	2.34	1.92	1.59	1.14	3.18	2.73	1.95	3.63	3.16	2.61	2.17	1.59	4.00	3.84	3.67	3.04	2.40
5	9	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	2.27	2.17	1.84	1.53	1.27	2.85	2.55	1.93	3.17	2.72	2.24	1.84	1.48	3.53	3.35	3.16	2.55	1.93
		S	1.11	1.01	0.88	0.79	0.60	1.42	1.37	1.19	1.04	0.77	2.04	1.71	1.22	2.04	1.90	1.55	1.29	0.93	2.57	2.22	1.60	2.89	2.51	2.06	1.71	1.32	3.07	2.99	2.91	2.33	1.74
7	3	T	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	4.76	4.39	3.84	3.27	2.66	5.81	5.11	3.76	7.07	6.20	5.26	4.53	3.66	8.36	7.72	7.08	6.23	5.37
		S	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	3.10	2.83	2.35	1.98	1.42	3.84	3.29	2.34	4.55	4.01	3.35	2.85	2.23	5.12	4.86	4.60	3.95	3.30
7	5	T	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	3.62	3.40	2.95	2.48	2.03	4.39	3.93	2.96	5.27	4.57	3.83	3.22	2.43	6.03	5.65	5.27	4.45	3.63
		S	1.15	1.05	0.91	0.82	0.62	1.75	1.61	1.40	1.24	0.90	2.45	2.04	1.44	2.64	2.43	2.01	1.67	1.20	3.28	2.82	2.02	3.85	3.37	2.79	2.34	1.76	4.29	4.10	3.90	3.28	2.66
7	7	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	2.49	2.35	2.01	1.68	1.38	3.09	2.75	2.07	3.54	3.05	2.53	2.09	1.50	4.01	3.77	3.53	2.91	2.28
		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	2.16	2.00	1.64	1.36	0.98	2.71	2.33	1.67	3.10	2.71	2.23	1.86	1.35	3.40	3.27	3.13	2.58	2.02
7	9	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	1.73	1.65	1.39	1.17	1.01	2.18	1.94	1.45	2.43	2.07	1.72	1.50	1.23	2.70	2.56	2.42	1.99	1.56
		S	0.94	0.86	0.74	0.67	0.51	1.20	1.16	1.01	0.91	0.68	1.72	1.45	1.04	1.67	1.58	1.28	1.06	0.80	2.11	1.84	1.34	2.31	2.00	1.66	1.43	1.13	2.37	2.35	2.32	1.87	1.41
9	3	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	3.77	3.50	3.06	2.61	2.14	4.58	4.06	3.02	5.56	4.89	4.16	3.58	2.85	6.51	6.04	5.57	4.88	4.18
		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	2.70	2.47	2.05	1.72	1.24	3.35	2.87	2.04	3.97	3.49	2.92	2.48	1.92	4.47	4.25	4.02	3.45	2.87
9	5	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	2.69	2.52	2.17	1.83	1.50	3.31	2.95	2.19	3.89	3.37	2.82	2.37	1.78	4.51	4.20	3.89	3.29	2.68
		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	2.27	2.08	1.71	1.42	1.02	2.83	2.43	1.72	3.29	2.87	2.38	2.00	1.50	3.68	3.50	3.32	2.79	2.26
9	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	1.87	1.76	1.50	1.26	1.03	2.34	2.07	1.54	2.68	2.30	1.91	1.58	1.20	3.09	2.89	2.68	2.21	1.74
		S	0.90	0.81	0.70	0.64	0.48	1.23	1.16	1.01	0.89	0.66	1.75	1.46	1.04	1.79	1.67	1.37	1.14	0.82	2.25	1.94	1.40	2.54	2.22	1.83	1.51	1.11	2.71	2.64	2.56	2.07	1.57
9	9	T	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	1.27	1.22	1.05	0.92	0.81	1.61	1.44	1.09	1.75	1.54	1.36	1.21	1.00	1.87	1.81	1.74	1.50	1.25
		S	0.79	0.71	0.62	0.56	0.42	1.00	0.98	0.87	0.78	0.59	1.38	1.18	0.89	1.25	1.20	0.98	0.86	0.67	1.58	1.39	1.04	1.66	1.48	1.31	1.16	0.92	1.64	1.66	1.67	1.40	1.13
11	3	T	1.07	0.96	0.86	0.77	0.60	1.91	1.74	1.55	1.36	1.05	2.61	2.22	1.57	2.79	2.60	2.28	1.95	1.59	3.39	3.00	2.25	4.12	3.62	3.09	2.64	2.07	4.82	4.48	4.13	3.61	3.09
		S	0.94	0.86	0.74	0.67	0.50	1.51	1.36	1.18	1.05	0.76	2.09	1.73	1.22	2.31	2.11	1.75	1.47	1.05	2.88	2.46	1.75	3.41	3.00	2.50	2.12	1.63	3.84	3.65	3.45	2.96	2.46
11	5	T	0.87	0.78	0.69	0.62	0.48	1.36	1.27	1.13	0.98	0.75	1.92	1.63	1.14	1.99	1.85	1.59	1.34	1.09	2.47	2.17	1.59	2.90	2.50	2.09	1.75	1.34	3.42	3.16	2.90	2.47	2.03
		S	0.84	0.77	0.66	0.60	0.45	1.26	1.16	1.00	0.89	0.64	1.76	1.47	1.03	1.89	1.74	1.43	1.20	0.86	2.36	2.03	1.45	2.73	2.39	1.98	1.66	1.23	3.00	2.88	2.76	2.30	1.83
11	7	T	0.72	0.64	0.57	0.51	0.39	1.00	0.96	0.86	0.76	0.62	1.44	1.23	0.87	1.40	1.32	1.12	0.93	0.78	1.76	1.55	1.15	1.99	1.70	1.40	1.17	0.96	2.24	2.11	1.98	1.61	1.23
		S	0.72	0.64	0.57	0.51	0.39	0.98	0.95	0.83	0.75	0.56	1.41	1.19	0.86	1.37	1.29	1.05	0.87	0.65	1.72	1.50	1.10	1.89	1.65	1.35	1.12	0.89	1.97	1.94	1.91	1.51	1.11
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	0.89	0.88	0.80	0.71	0.63	1.04	0.97	0.82	1.26	1.16	1.04	0.93	0.76	1.31	1.29	1.26	1.11	0.95
		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	0.87	0.86	0.75	0.67	0.53	1.02	0.94	0.79	1.20	1.12	1.00	0.89	0.71	1.15	1.18	1.21	1.04	0.86
13	3	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	2.04	1.88	1.64	1.38	1.12	2.50	2.19	1.61	3.04	2.65	2.22	1.89	1.49	3.64	3.35	3.05	2.66	2.27
		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	1.95	1.78	1.48	1.24	0.88	2.41	2.07	1.47	2.86	2.52	2.09	1.77	1.36	3.19	3.05	2.90	2.47	2.04
13	5	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	1.50	1.39	1.20	1.00	0.81	1.87	1.64	1.19	2.19	1.89	1.57	1.31	0.98	2.57	2.38	2.19	1.84	1.48
		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	1.47	1.37	1.13	0.94	0.68	1.84	1.59	1.15	2.09	1.82	1.51	1.26	0.90	2.25	2.18	2.10	1.72	1.34
13	7	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	0.93	0.89	0.76	0.67	0.59	1.18	1.05	0.79	1.28	1.11	0.99	0.88	0.72	1.36	1.32	1.27	1.09	0.91
		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	0.92	0.88	0.72	0.63	0.50	1.16	1.02	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	0.62	0.61	0.56	0.50	0.45	0.70	0.67	0.58	0.87	0.80	0.72	0.65	0.53	0.89	0.88	0.87	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	0.72	0.66	0.52	0.60	0.60	0.52	0.47	0.37	0.68	0.65	0.56	0.82	0.77	0.70	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 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	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	4.55	3.87	3.14	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
		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	2.50	1.79	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	5	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	3.16	2.57	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
		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	2.21	1.58	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	2.38	1.95	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
		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	1.89	1.36	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	9	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	2.15	1.80	1.47	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
		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	1.46	2.54	2.35	1.93	1.60	1.16	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	3.25	2.65	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
		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	2.25	1.61	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	5	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	2.54	2.07	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
		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	1.96	1.40	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	1.91	1.56	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
		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	1.68	1.20	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	0.94	2.25	1.91	1.35	2.21	2.07	1.77	1.47	1.21	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
		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	1.37	1.00	2.70	2.35	1.70	3.02	2.63	2.17	1.78	1.35	3.19	3.115	3.04	2.425	1.81
9	3	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	2.62	2.14	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
		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	1.99	1.43	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	5	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	2.00	1.63	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
		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	1.73	1.24	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	7	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	1.56	1.26	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
		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	1.44	1.04	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	1.18	0.99	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
		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	1.10	0.83	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	3	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	2.05	1.67	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
		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	1.76	1.26	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	5	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	1.61	1.30	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
		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	1.50	1.08	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	7	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	1.26	1.02	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
		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	1.18	0.86	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	0.92	0.81	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
		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	0.86	0.68	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	3	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	1.64	1.31	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
		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	1.53	1.09	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	5	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	1.31	1.06	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
		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	1.23	0.89	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	7	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	0.96	0.78	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
		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	0.90	0.66	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	0.71	0.63	1.09	0.99	0.82	1.26	1.16	1.04	0.93	0.76	1.31	1.285	1.26	1.105	0.95
		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	0.67	0.53	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

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	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	3.17	2.26	3.50	3.32	2.83	2.37	1.95	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	3.95	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	2.05	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	2.16	1.79	1.26	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	1.23	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	1.44	1.23	0.91	1.34	1.27	1.03	0.87	0.68	1.69	1.48	1.10	1.81	1.57	1.32	1.16	0.92	1.83	1.83	1.82	1.48	1.13

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

Total heating capacity, kW

Water flow rate		ΔT	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				
l/h	l/s	K	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
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	2.33	2.23	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	1.03	0.83	2.13	1.97	1.78	1.50	1.26	2.61	2.38	1.79	3.29	3.06	2.75	2.41	2.01	3.74	3.37	2.67	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	2.10	4.22	3.76	2.87	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	2.15	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	2.18	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	2.20	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	2.03	4.05	3.68	3.22	2.73	2.21	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	2.22	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	2.23	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	2.23	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	2.24	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	3.57	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	3.03	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	3.17	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	3.24	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	3.28	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	3.31	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	3.32	7.33	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	3.34	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	3.35	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	3.36	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	3.36	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	3.41	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	4.07	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	4.25	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	4.34	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	4.39	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	4.42	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	4.45	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	4.46	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	4.48	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	4.49	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	4.50	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		ΔT	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				
l/h	l/s	K	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
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	6.15	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
480	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	5.11	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	5.34	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	5.44	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	5.50	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	8.68	7.38	5.10	10.18	9.23	8.08	6.85	5.54	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	5.57	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	5.59	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	5.61	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	5.62	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	5.63	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
200	0.06	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	5.22	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
480	0.13	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	6.16	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
760	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	6.43	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
1040	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	6.55	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
1320	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	6.62	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
1600	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	6.67	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
1880	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	6.70	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
2160	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	6.73	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
2440	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	6.75	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
2720	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	6.76	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
3000	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	6.77	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
200	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	6.13	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
480	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	7.22	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
760	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	7.52	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
1040	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	7.67	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
1320	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	7.75	16.84	14.81	10.88	20.69	18.07	15.62	13.53	11.11	23.95	22.23	20.50	18.42	16.34
1600	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	7.80	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
1880	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	7.84	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
2160	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	7.87	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
2440	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	7.89	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
2720	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	7.90	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
3000	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	7.92	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

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	1	2	3	4	5	1	2	3	4	5
Entering air temperature 17°C wb / 23°C db																																	
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	0.94	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	3.13	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	0.53	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	0.31	0.27	0.32	0.30	0.30	0.38	0.34	0.35	0.30	0.28	0.40	0.39	0.38	0.37	0.36
		S	0.20	0.20	0.17	0.16	0.12	0.25	0.26	0.23	0.21	0.19	0.28	0.26	0.23	0.29	0.28	0.30	0.30	0.27	0.30	0.29	0.29	0.36	0.32	0.34	0.28	0.26	0.37	0.36	0.35	0.35	0.35

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

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	1	2	3	4	5	1	2	3	4	5
Entering air temperature 19°C wb / 25°C db																																	
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	1.77	4.05	3.74	3.43	3.74	2.75
5	9	T	1.26	1.20	0.99	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	0.81	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
		S	0.35	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	0.58	0.55	0.53	0.68	0.61	0.64	0.52	0.48	0.72	0.70	0.68	0.70	0.65

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

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	1	2	3	4	5	1	2	3	4	5
Entering air temperature 19°C wb / 27°C db																																	
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	1.56	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	3.09	2.78	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	2.01	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	1.09	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	1.11
		S	0.50	0.47	0.39	0.36	0.27	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	0.84	0.79	0.74	1.24	1.01	1.01	0.76	0.69	1.43	1.33	1.23	1.15	1.06

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

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	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	2.52	2.11	1.54	2.94	2.69	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	2.10	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	4.49	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	2.19	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	0.79	0.69	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	1.99	1.81	1.63
		S	0.66	0.62	0.52	0.47	0.36	0.81	0.82	0.73	0.66	0.57	0.96	0.87	0.74	1.12	1.05	1.04	0.99	0.82	1.31	1.16	1.00	1.88	1.57	1.49	1.14	0.96	2.19	2.03	1.86	1.71	1.55

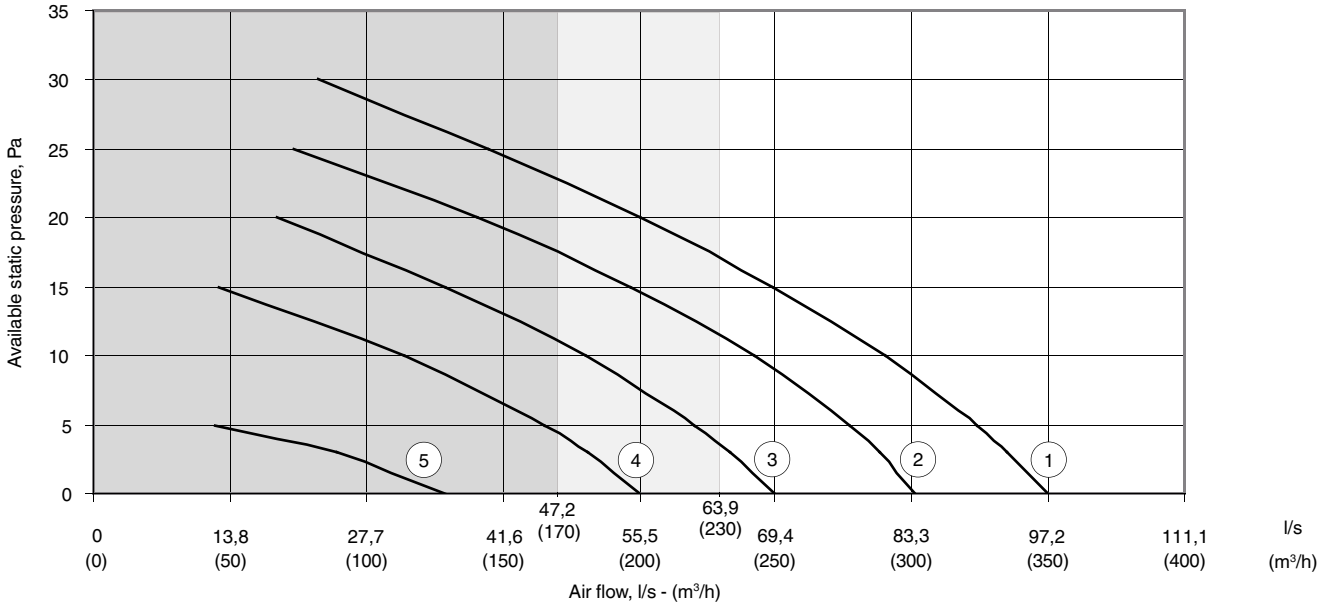
EWT Entering water temperature
ΔT Water temperature rise
wb Wet bulb temperature
db Dry bulb temperature
T Total cooling capacity, kW
S Sensible cooling capacity, kW

Total heating capacity, kW																																
EWT	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				
°C		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	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 Entering air temperature
EWT Entering water temperature
ΔT Available temperature difference - EWT -EAT

Fan performances

42N_S 15, two-pipe coil

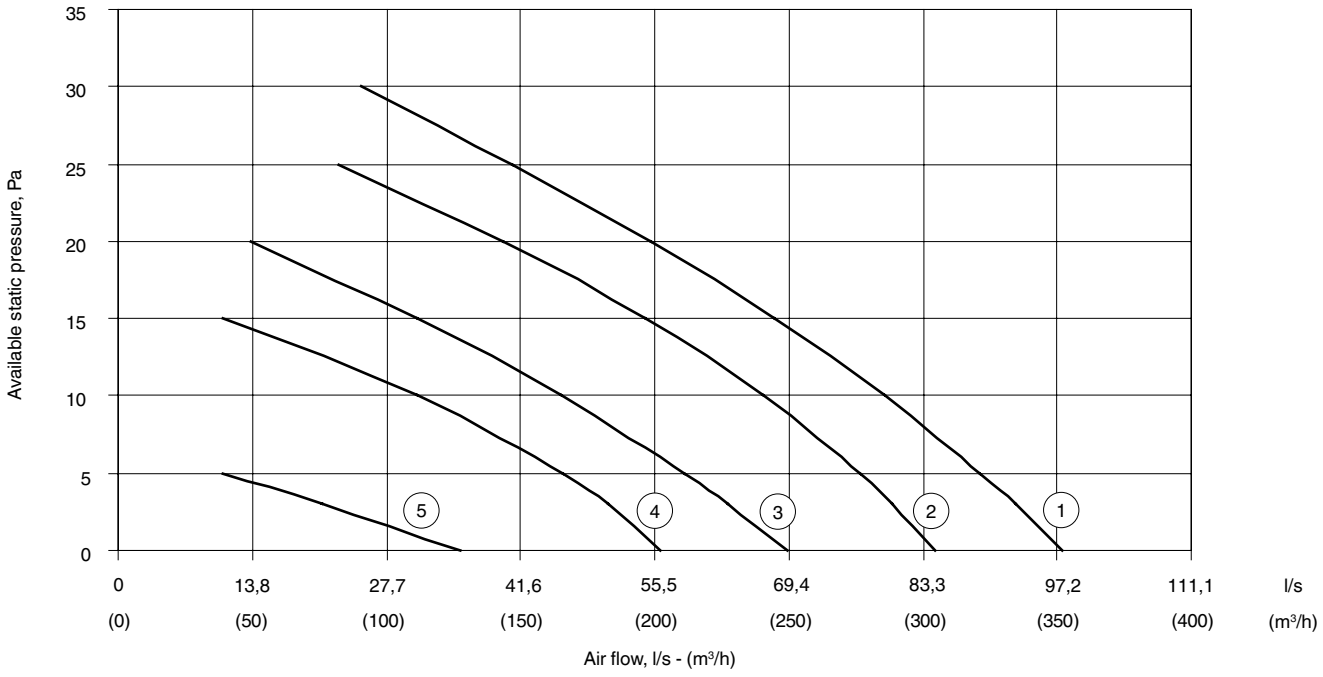


1 Fan speed: 1
2 Fan speed: 2
3 Fan speed: 3
4 Fan speed: 4
5 Fan speed: 5

Not allowed with electric heater (HP and LP)

Not allowed with electric heater (HP)

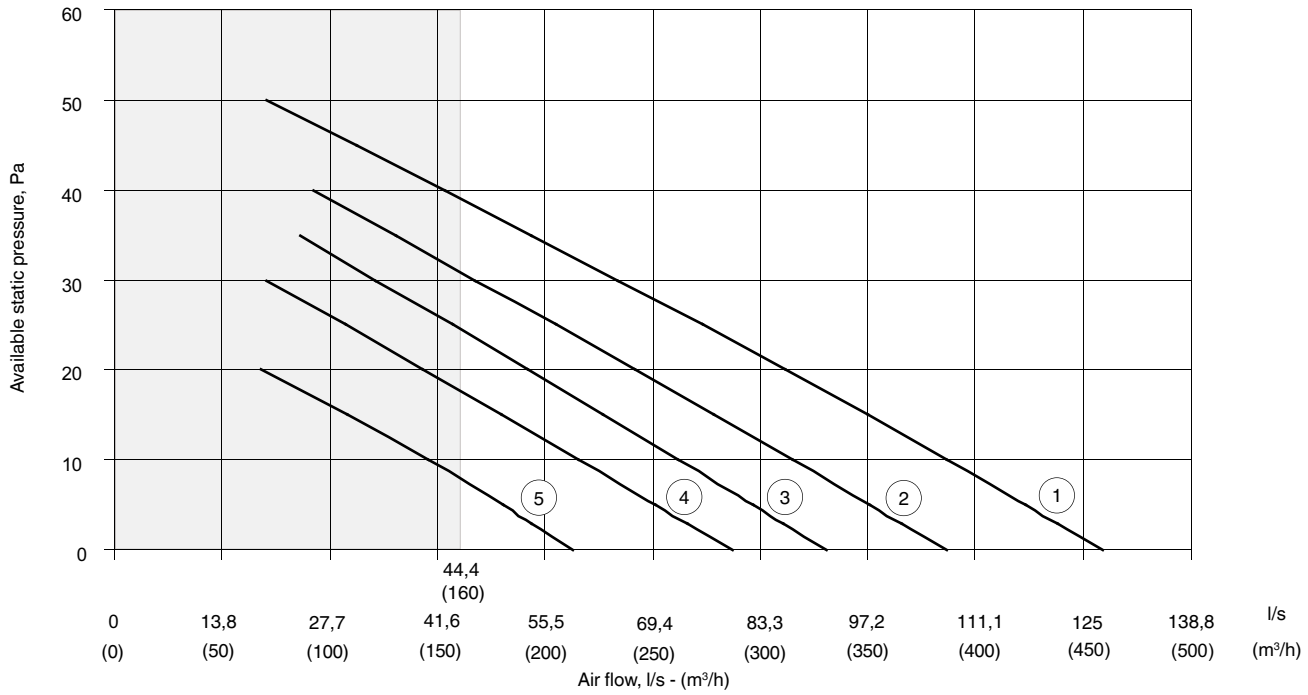
42N_S 15, four-pipe coil



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

Fan performances (continued)

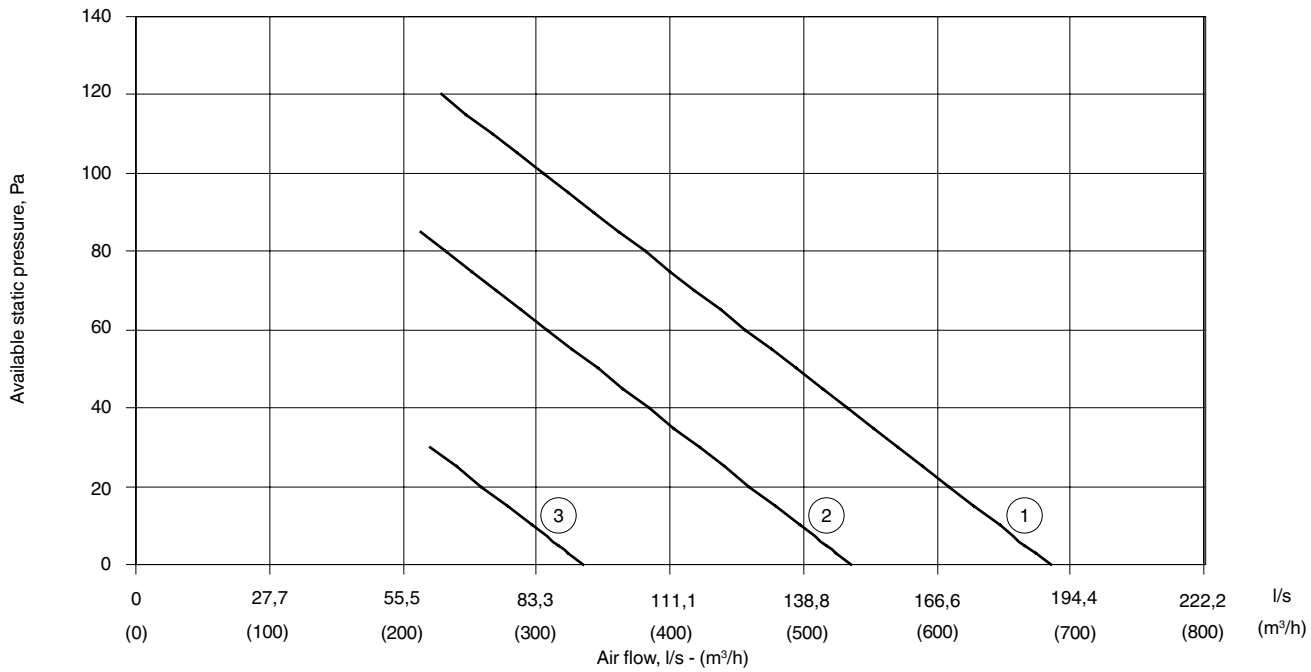
42N_S 20, two-pipe and four-pipe coil



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

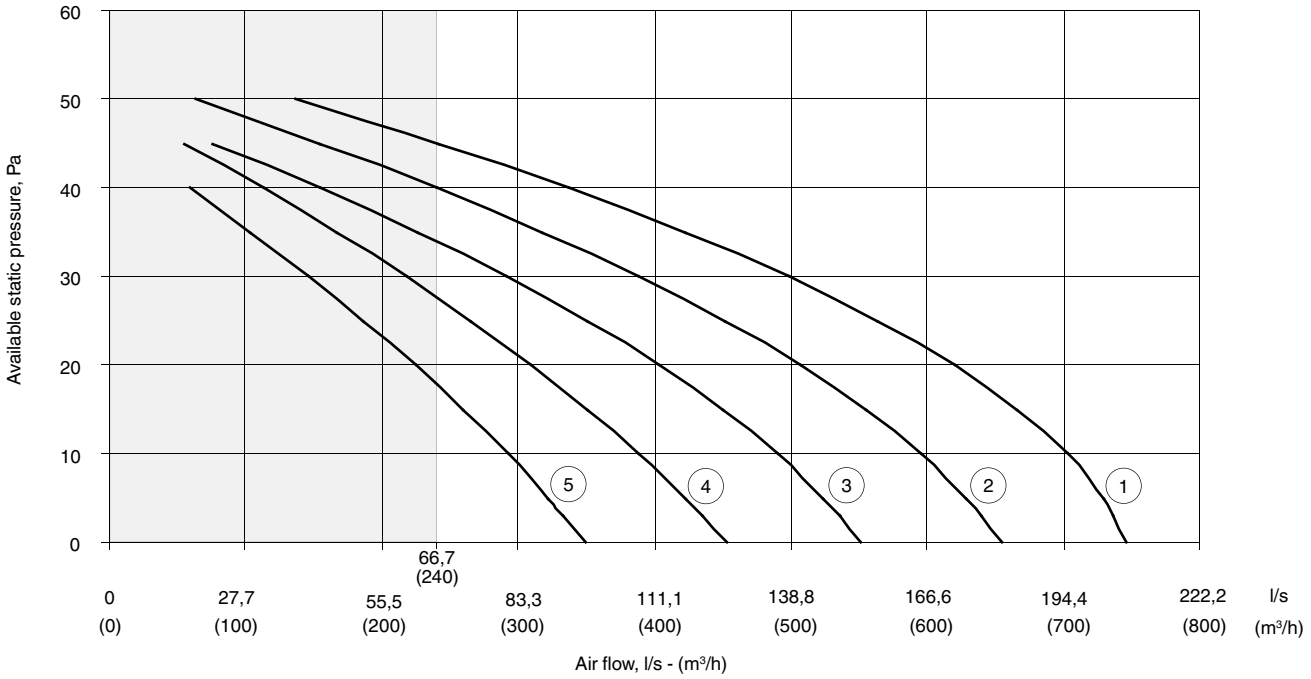
42N_S 26, two-pipe and four-pipe coil



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

Fan performances (continued)

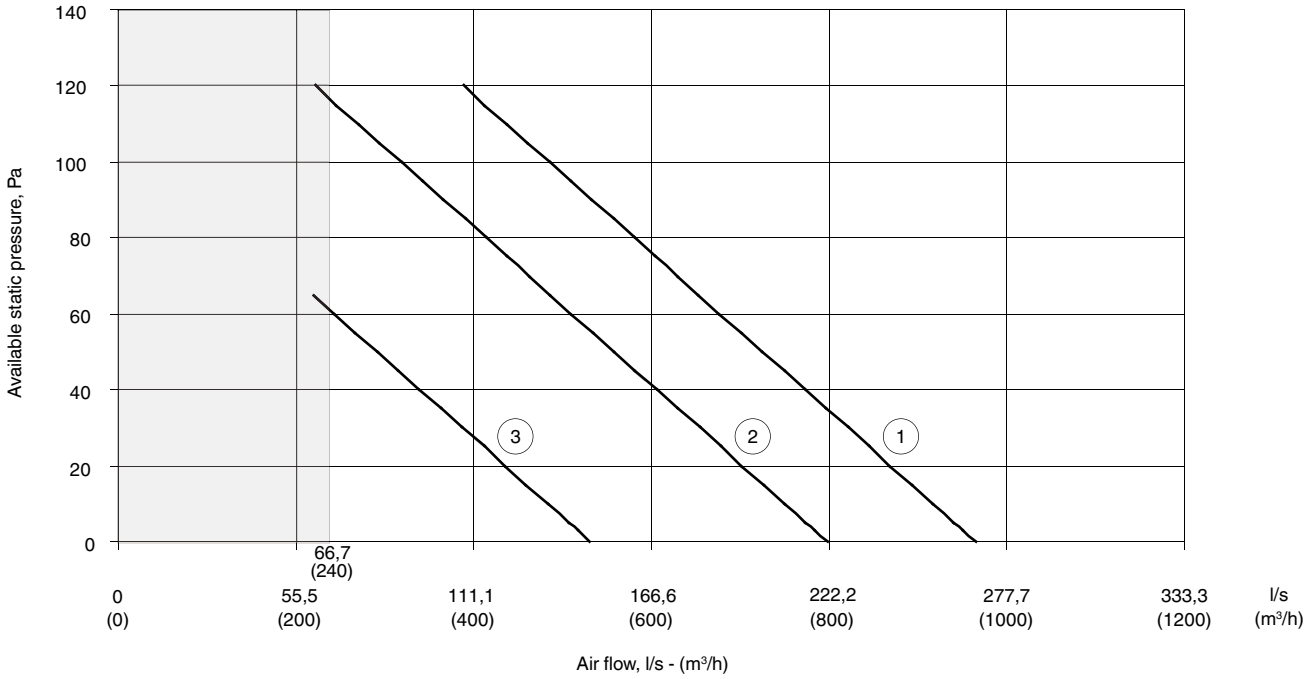
42N_S 30, two-pipe and four-pipe coil



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

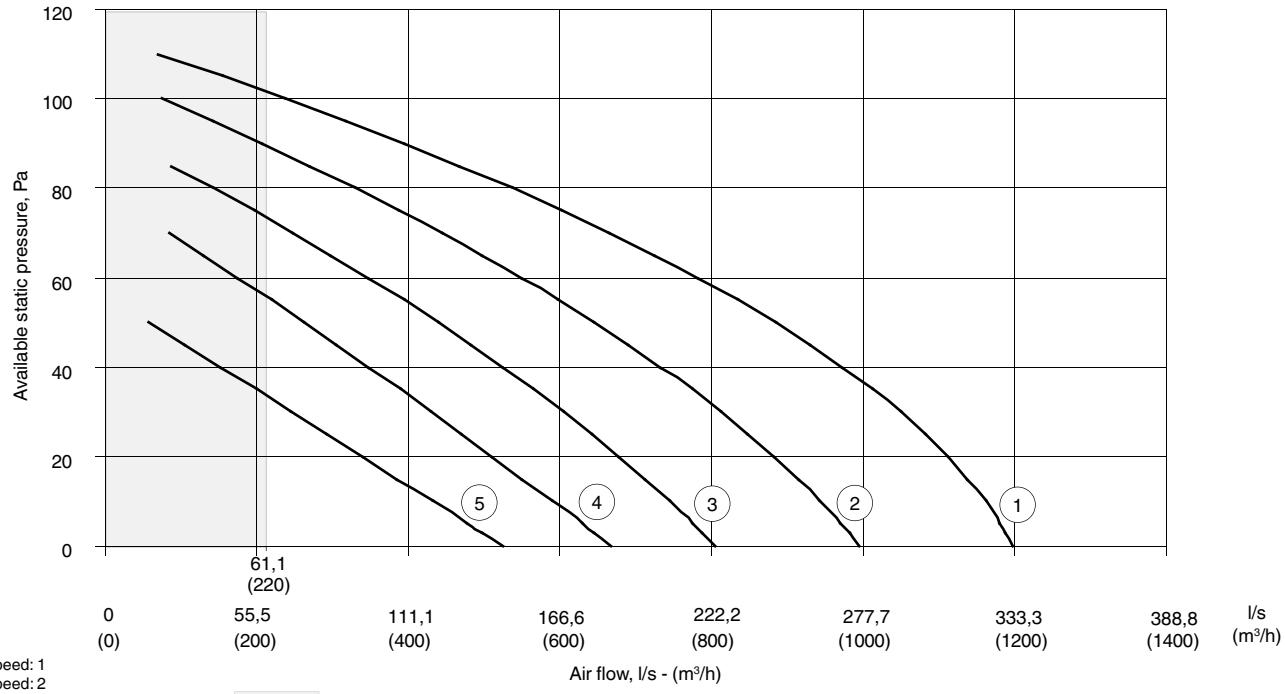


1 Fan speed: 1
2 Fan speed: 2
3 Fan speed: 3

Not allowed with electric heater

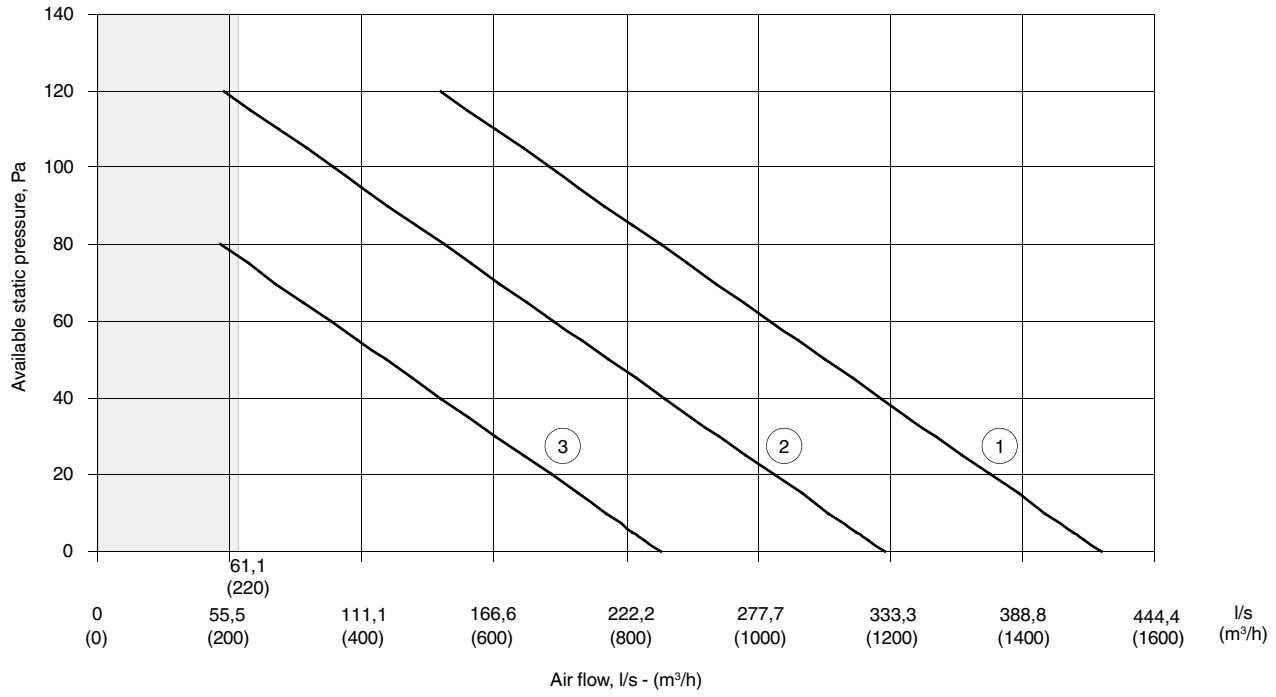
Fan performances (continued)

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



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

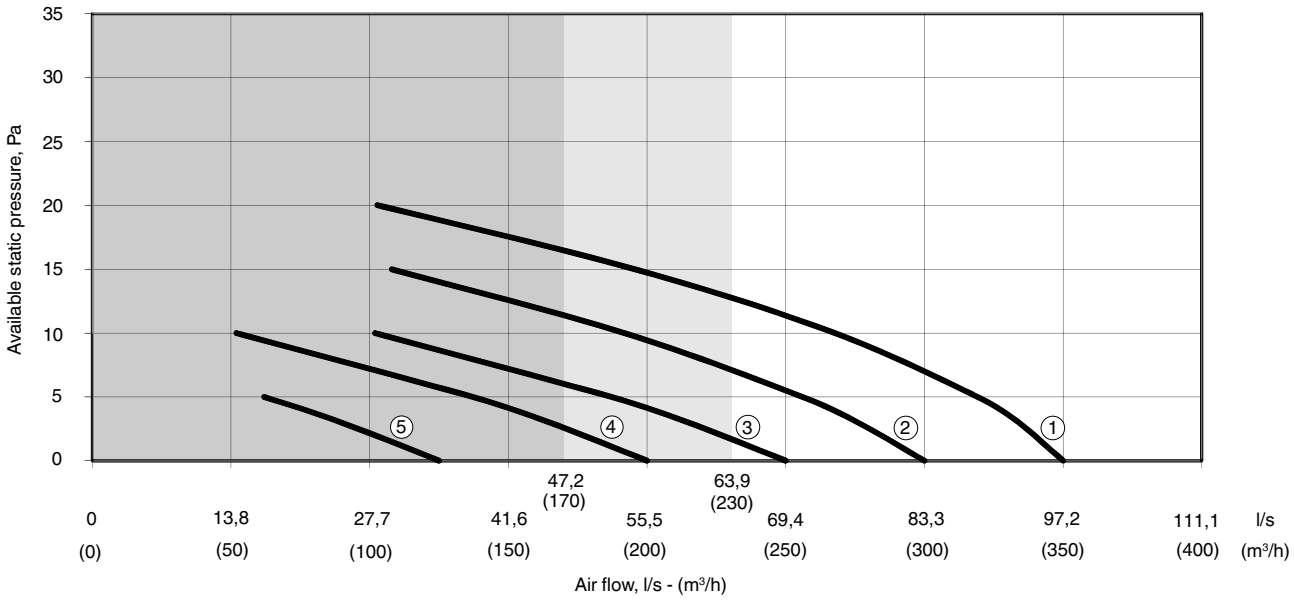
42N_S 65, two-pipe and four-pipe coil



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

Fan performances, units with LEC motors

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

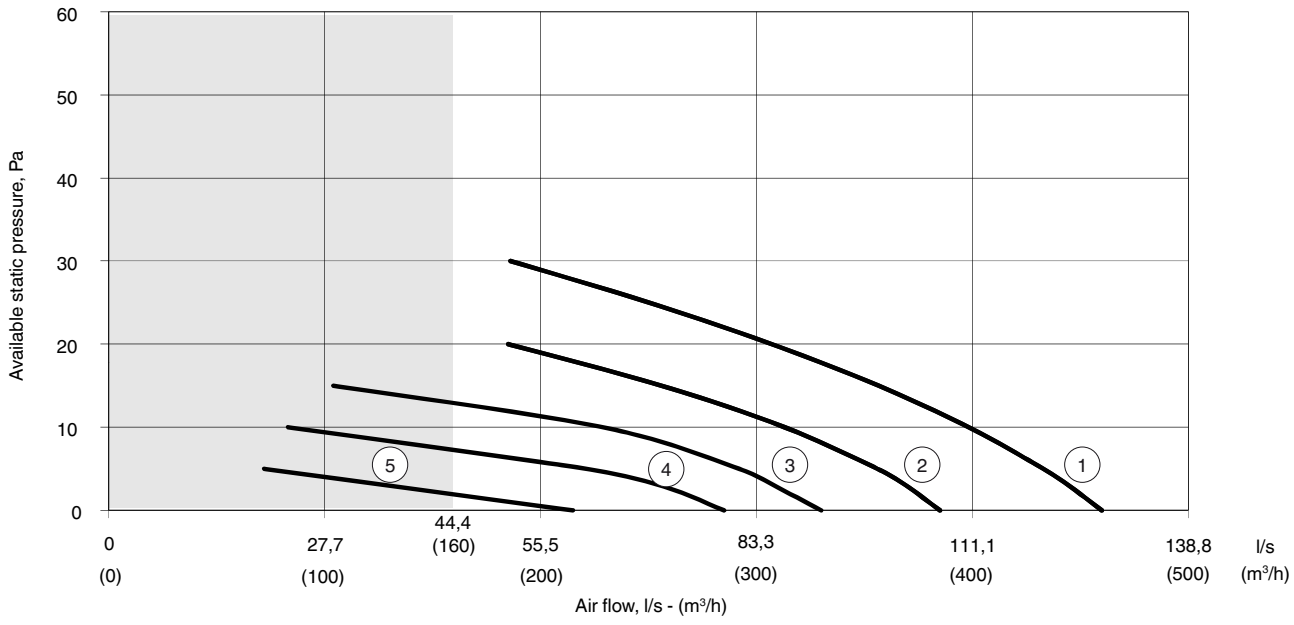


Not allowed with electric heater (HP and LP)

Not allowed with electric heater (HP)

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

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

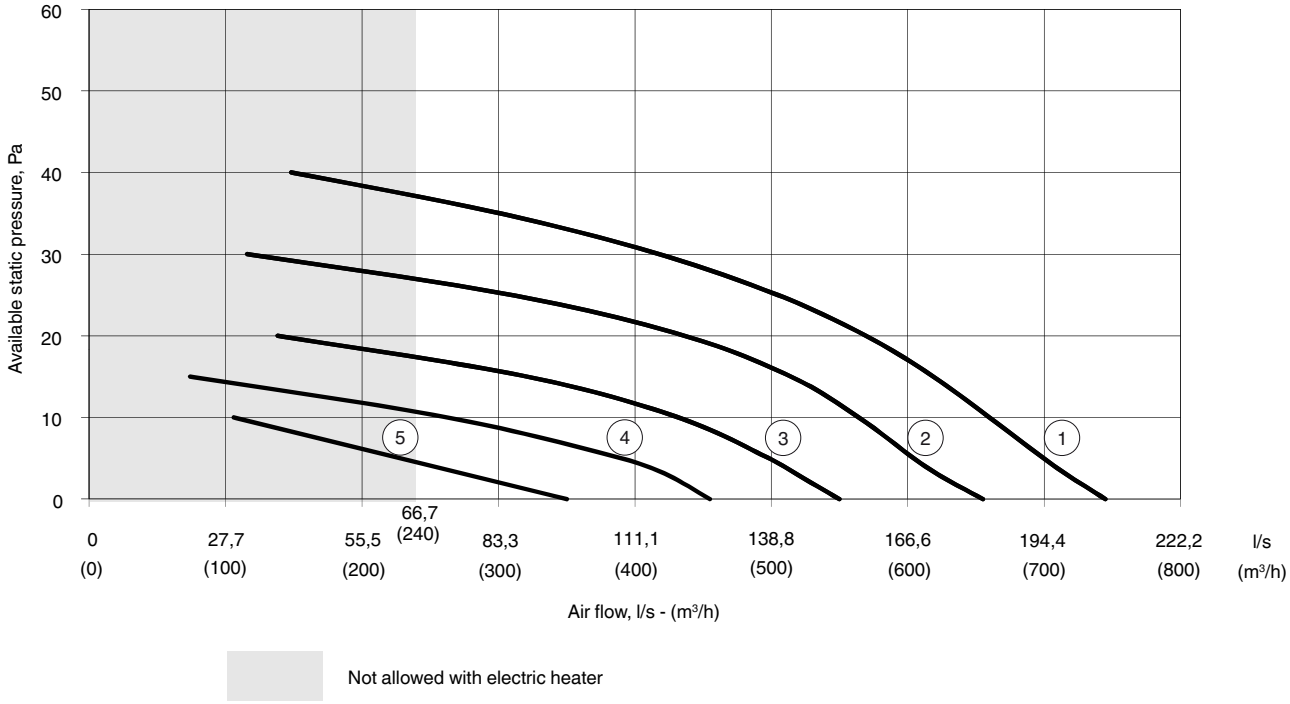


Not allowed with electric heater

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

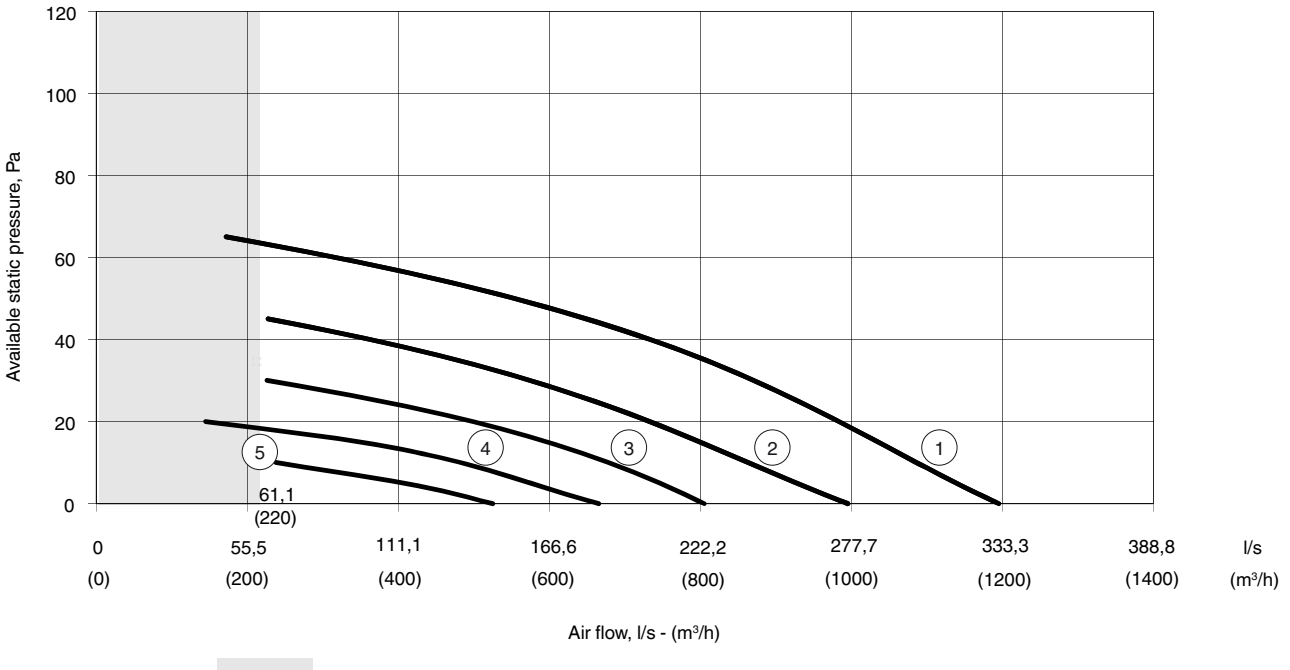
Fan performances, units with LEC motors (continued)

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



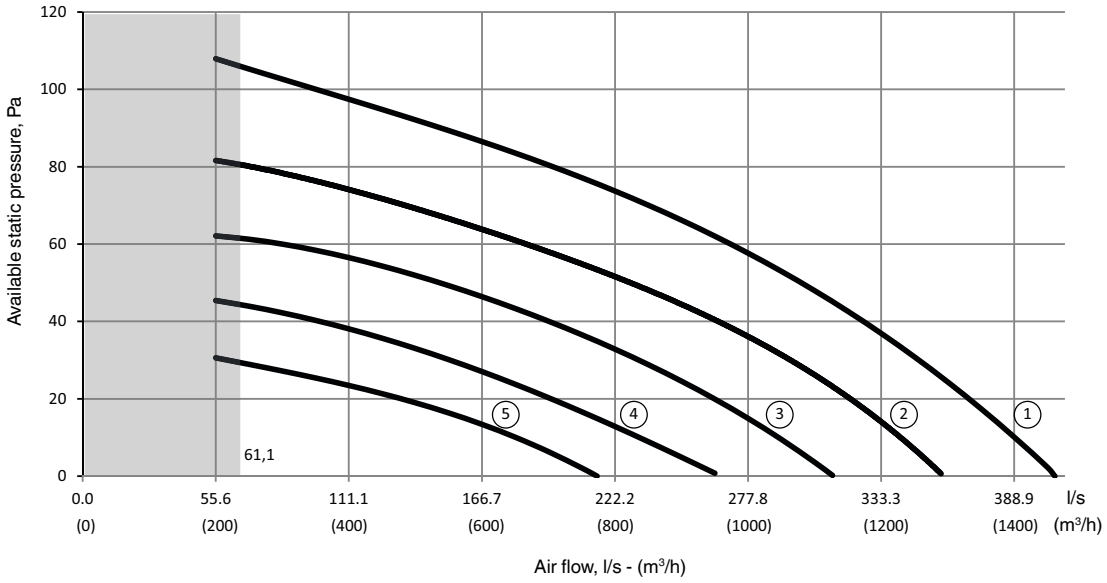
1 Fan speed: 100%
2 Fan speed: 75%
3 Fan speed: 60%
4 Fan speed: 45%
5 Fan speed: 30%

42N_E 49, 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%

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		42N_S 15-E 19 two-pipe			42N_S 15-E 19 four-pipe			42N_S 20-E 29			42N_S 26		
S 15-S 20-S 30-S 45 E 19-E 29-E 39-E 49-E 69	S 26-S 42-S 65	m	l/s	m^3/h	m	l/s	m^3/h	m	l/s	m^3/h	m	l/s	m^3/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		42N_S 30-E 39			42N_S 42			42N_S 45-E 49			42N_S 65-E 69		
S 15-S 20-S 30-S 45 E 19-E 29-E 39-E 49-E 69	S 26-S 42-S 65	m	l/s	m^3/h	m	l/s	m^3/h	m	l/s	m^3/h	m	l/s	m^3/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: 5°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

* In heating mode with electric heater.
** 60Hz is available for all EC fan motor. 60Hz is only available for AC fan motor in unit sizes 42N_S26, 42N_S42 and 42N_S65.



Quality and Environment
Management Systems
Approval

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

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