



Hybrox

11 / 16

Outdoor air source heat pump
Heating & cooling



MODELS

2



OUTPUT (kW)

10 - 13

Hybrox 11 / 16

The Hybrox is a high-performance, high temperature air source heat pump designed to meet heating, cooling, and domestic hot water demands across a wide range of applications, from apartment buildings and commercial properties to challenging refurbishments. The Hybrox utilises natural R290 refrigerant for exceptional energy efficiency and a reduced environmental impact.

Available in two models (11 and 16), with an output range of 10-13kW, the Hybrox covers a broad spectrum of residential and light commercial requirements. Up to 4 units can be cascaded together to provide combined capacity up to 52kW, making them a flexible choice for both new builds and retrofit installations.

Featuring inverter-driven technology and the Luxtronik weather-compensated controller, the Hybrox ensures optimal system efficiency by automatically adjusting output to match heating demand. With flow temperatures up to 78°C, it



delivers stable, reliable performance year-round – achieving COP up to 5.55 (A7/W35) and A+++ energy efficiency ratings while minimising energy consumption.

2

2 Year Parts Warranty*

- Perfect for high temperature heating systems
- Quiet & compact
- Flow temperatures up to 78°C
- Cascadable up to 4 units
- Controllable via myUplink app

Energy efficiency (35 & 55°C)	A+++
COP (A7/W35)	5.68
Heating output	10kW / 13kW
Max. flow temperature	78°C
Working range (min/max)	-22 / 35°C
Power supply	400V
Sound power level (min/max)	45 / 60 dB(A)

Luxtronik wall controller

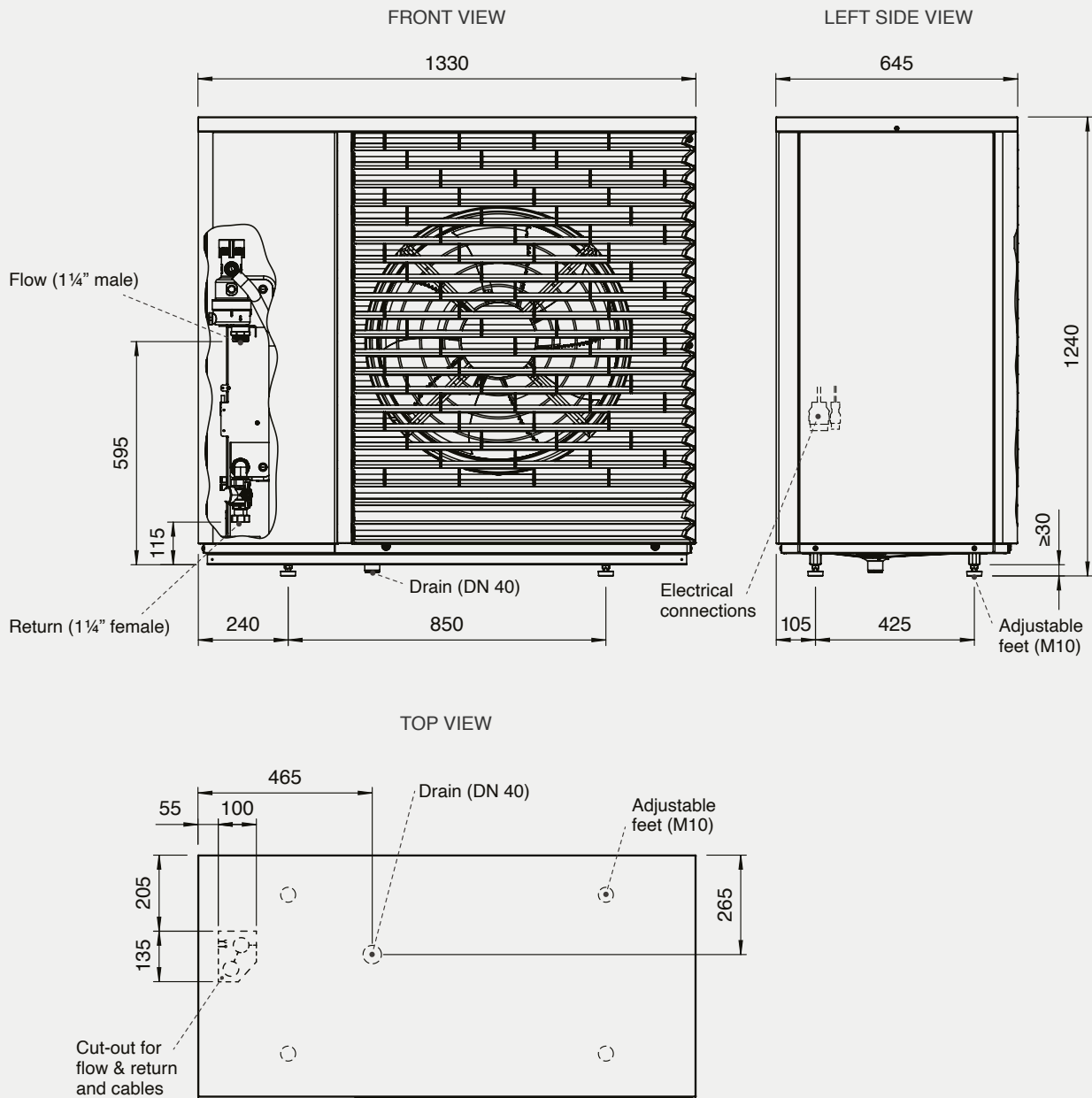
The Luxtronik indoor weather-compensated controller enables precise control and can be individually combined with various units and accessories on the market. Each unit includes a high-efficiency circulation pump and flow sensor as standard. Featuring a full graphic display with intuitive menu navigation, all operating modes are individually programmable with runtime-optimised and heat demand-dependent compressor control. An outdoor temperature sensor, operating hours counter and diagnostic programme with fault memory allow heating performance to be optimally adjusted and monitored. Additional features include screed heating, pump optimisation, control of several heat generators, mixing circuit control, data logger, commissioning assistant, holiday mode and rapid domestic hot water heating, with network-compatible USB interface and multilingual support.



*Subject to Terms & Conditions

Dimensions

Dimensions: mm



Clearances (mm)

11 / 16

Front	1500
Rear	400
Left	1000
Right	1000
Top	1000

Performance data

11


16




















Performance

Heating capacity / COP (DIN EN 14511-x)	A10/W35 – Partial load	kW / COP	3.69 / 5.63	5.61 / 5.90
	A7/W35 – Partial load	kW / COP	3.45 / 5.04	5.48 / 5.68
	A7/W55 – Partial load	kW / COP	3.20 / 3.03	4.94 / 3.29
	A2/W35 – Partial load	kW / COP	6.94 / 4.38	10.10 / 4.20
	A-7/W35 – Partial load	kW / COP	9.41 / 3.04	13.00 / 2.76
	A-7/W55 – Partial load	kW / COP	8.44 / 2.15	12.69 / 2.15
Heating capacity (min/max)	A10/W35	kW	3.69 / 10.00	5.61 / 13.00
	A7/W35	kW	3.45 / 10.00	5.47 / 13.00
	A7/W55	kW	3.20 / 10.00	4.94 / 13.00
	A2/W35	kW	3.58 / 10.00	4.59 / 13.00
	A-7/W35	kW	3.57 / 9.41	4.74 / 13.00
	A-7/W55	kW	3.31 / 8.44	4.26 / 12.69
Cooling capacity / EER	A35/W18 – Partial load	kW / EER	8.62 / 4.45	8.20 / 4.52
	A35/W7 – Partial load	kW / EER	5.94 / 3.16	6.95 / 3.10
Cooling capacity (min/max)	A35/W18	kW	3.67 / 10.00	5.59 / 12.00
	A35/W7	kW	2.43 / 8.00	3.74 / 12.00
DHW heating capacity		kW	10	13
Energy efficiency class	35°C & 55°C			A+++
Maximum flow temperature		°C		78
Air flow rate at max external pressure		m ³ /h		4000
Flow rate (pipe dimensioning)		l/h	1800	2300
Minimum volume buffer tank in series / separation buffer tank		litres		88
Pressure loss at flow rate	At 1800 l/h	bar	0.16	0.14
Maximum allowable operating pressure		bar		3
Operating limits				
Heating circuit return/flow (min/max)	Within operating temperatures	°C		20 / 65
Operating temperature (min/max)	Heating	°C		-22 / 35
Average bivalence temperature (DIN EN 14825)	Low / Medium	°C		-7 / -7
Sound				
Sound power level (min/night/max)		dB(A)	45 / 52 / 60	46 / 55 / 60
Sound power level (DIN EN 12102-1)		dB(A)	49	46
General				
Total weight		kg	170	189
Refrigerating circuit maximum allowable operating pressure	High pressure / low pressure	MPa (g)		3.15 / 2.1
Refrigerant type / capacity		/ kg	R290 / 1.6	R290 / 1.9
Safety valve – heating circuit response pressure		bar		3
Electrical				
Voltage	Heat pump supply			3~N/PE/400V/50Hz
All-pole fuse protection ^{1 2}	Compressor only	A		B16
Control voltage fuse protection ²		A		B10
Effective power consumption (DIN EN 14511-x)	A7/W35 – Partial load	kW	0.68	1.12
Electrical consumption	A7/W35 – Partial load	A	1.21	1.67
Power factor	A7/W35 – Partial load	cosφ	0.99	0.97
Effective power consumption (min/max) ¹	A7/W35	kW	0.58 / 2.17	0.95 / 2.78
Maximum machine current ¹		A	8	11.5
Maximum power consumption ¹	Within operating limits	kW	6	8
IP protection				IP24
Residual current circuit breaker	If required			Type B
Luxtronik wall controller				
Dimensions	H x W x D	mm		535 x 330 x 166
Weight		kg		5.3

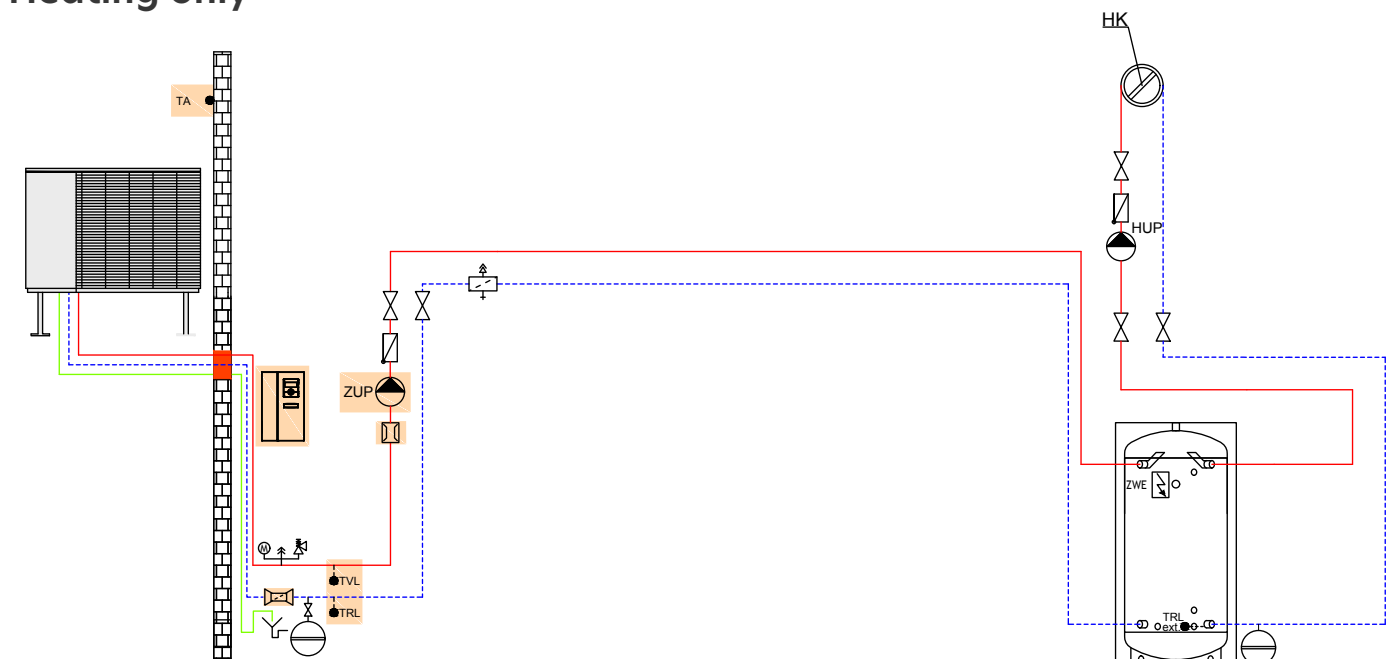
Schematic

Simplified diagram for illustration only - safety devices may have been omitted for clarity.
For additional schematics, refer to the installation guide.

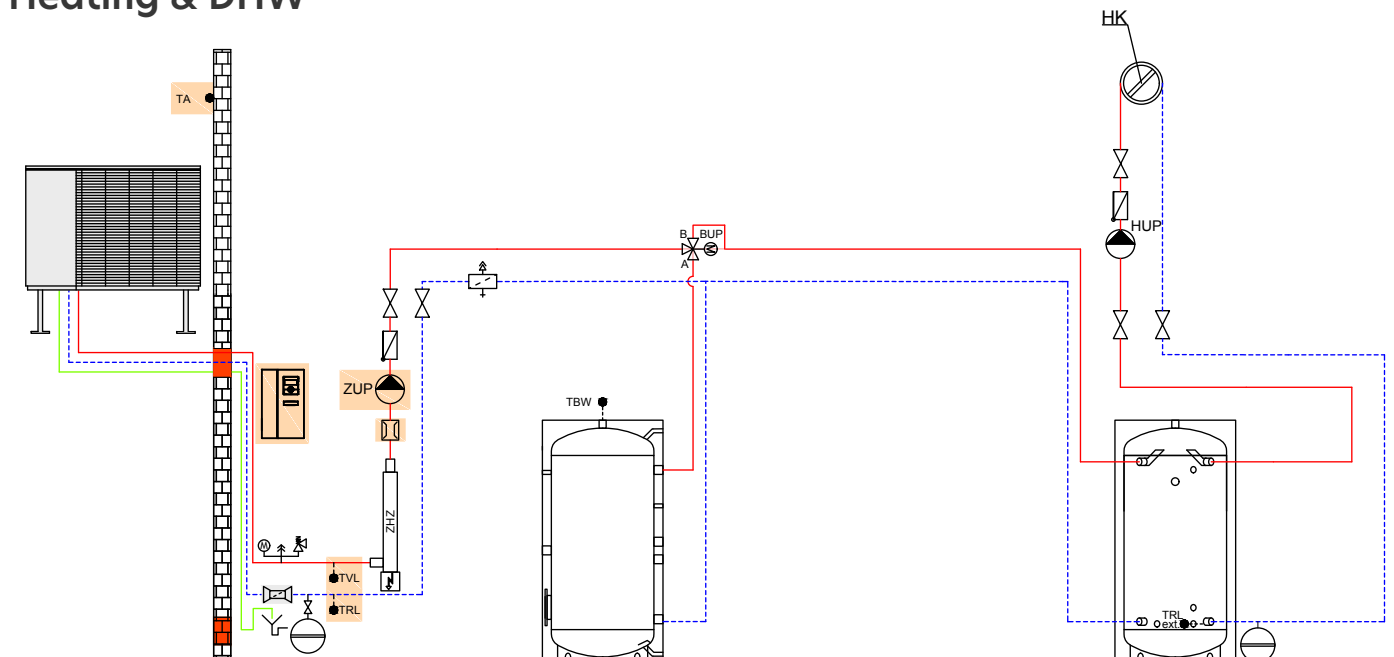
 Supplied with heat pump

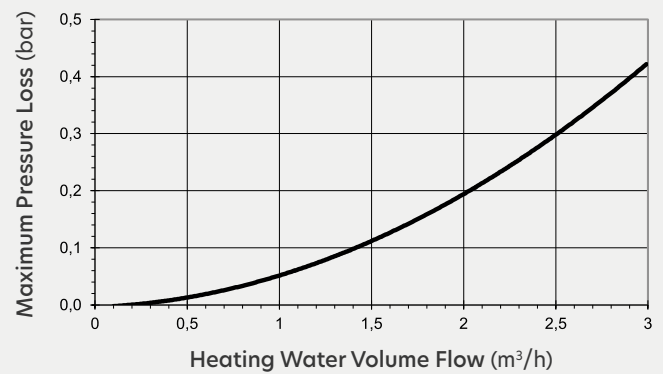
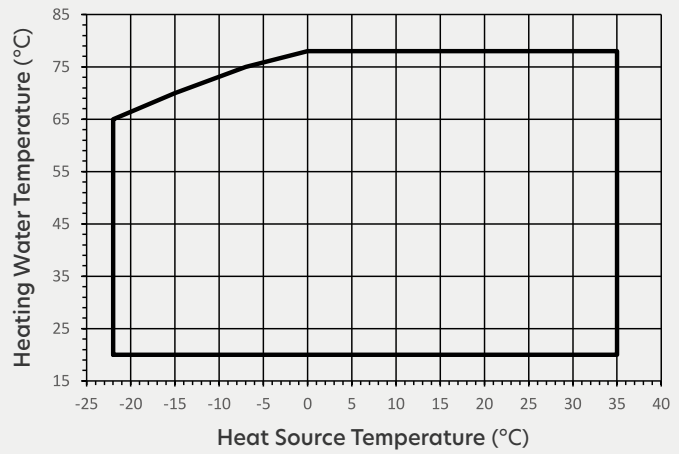
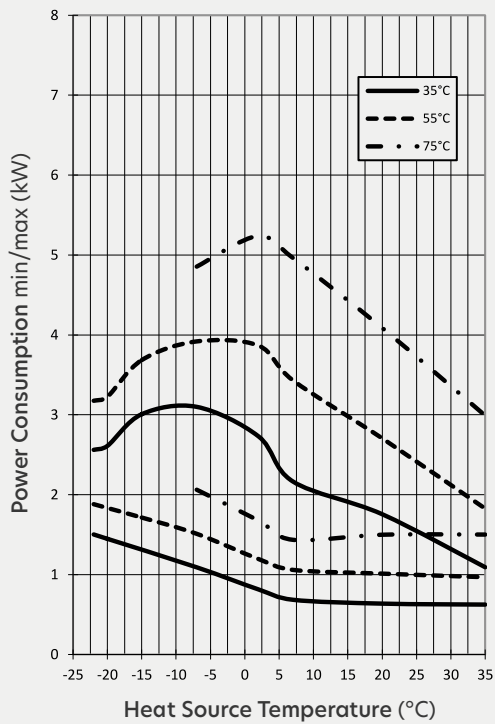
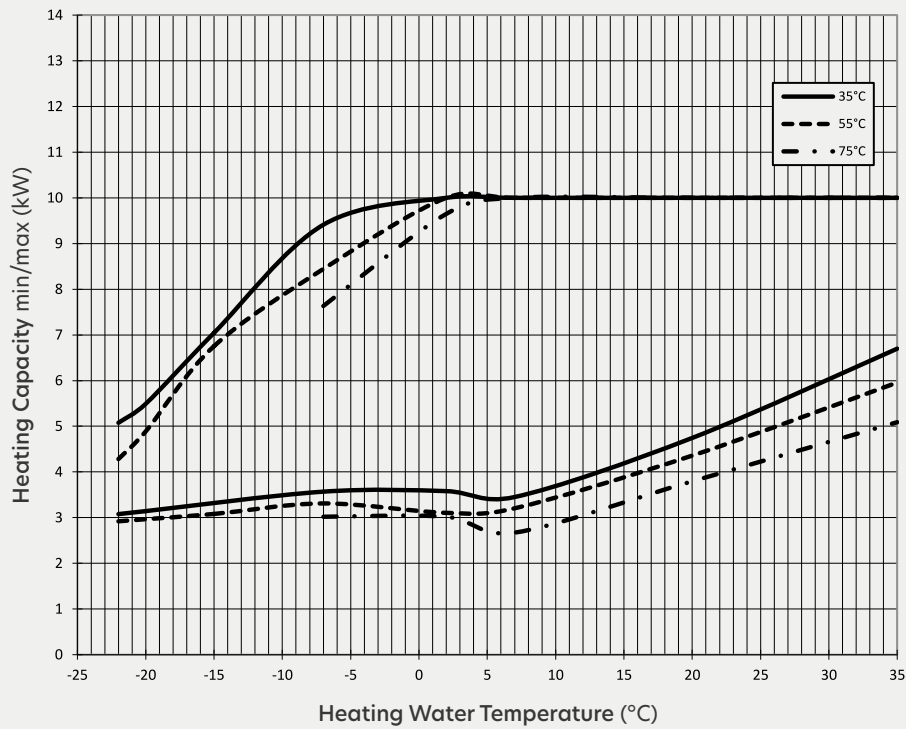
Symbol	Description	Symbol	Description
	Circulation pump heating circuit		Isolating valve
	Feed circulating pump		Non-return valve
	Outdoor temperature sensor		Dirt-trap
	DHW sensor		Circulation pump
	Sensor external return		Shut off device with dirt trap
	Sensor return		Safety group
	Flow sensor		3-way mixing valve
	Heating circuit		Immersion heater
			Volume flow meter
			Dew-point monitor
			Membrane expansion vessel

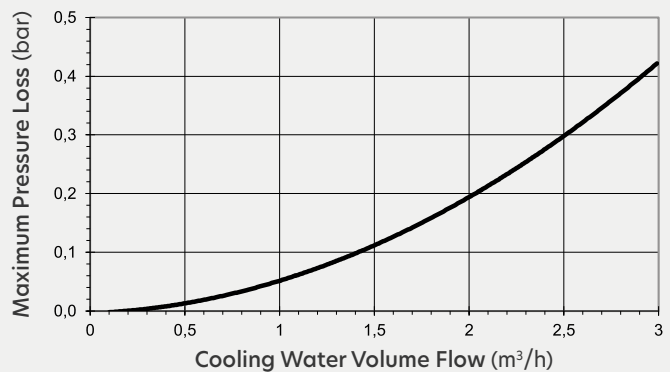
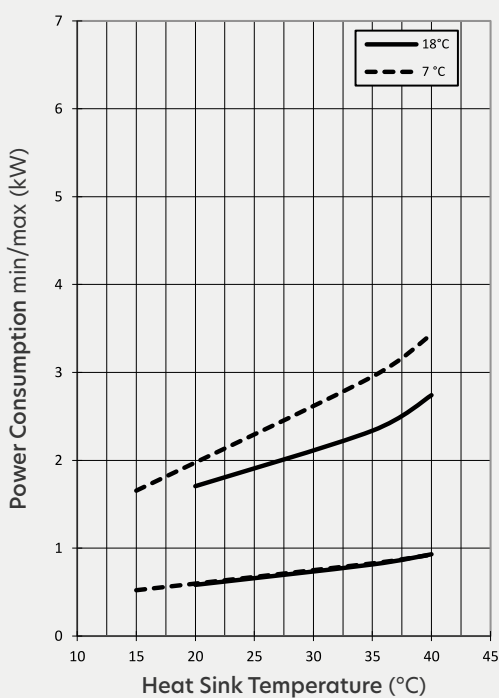
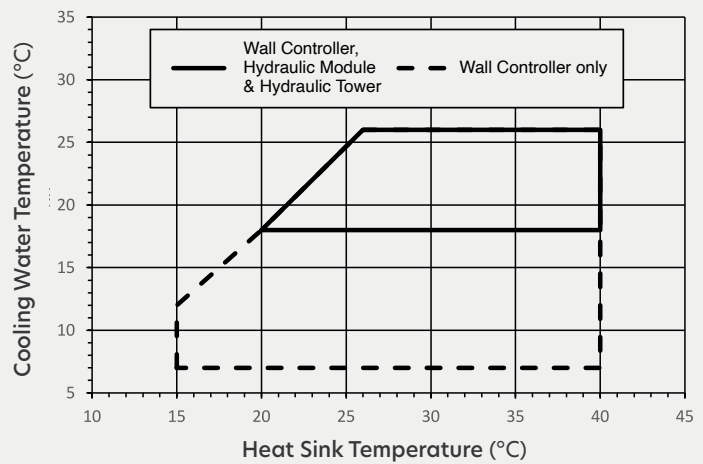
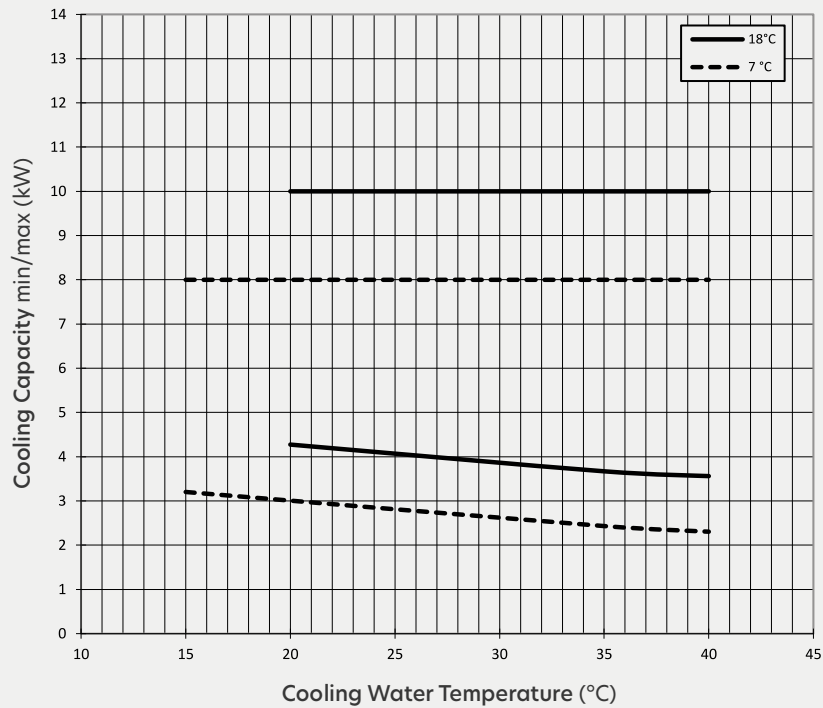
Heating only

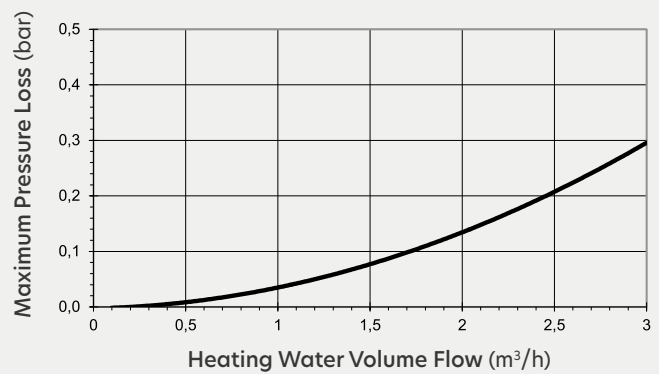
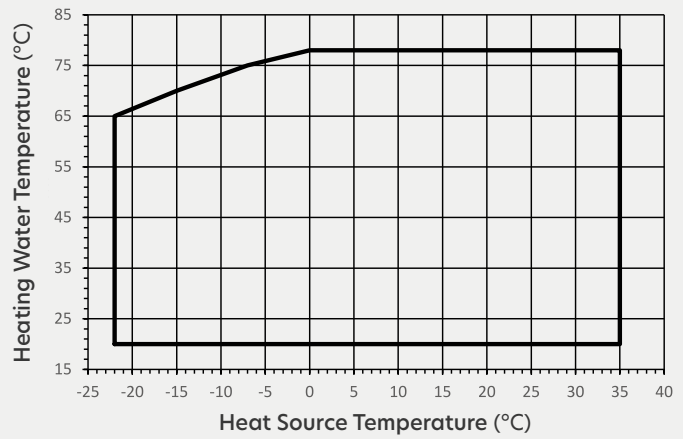
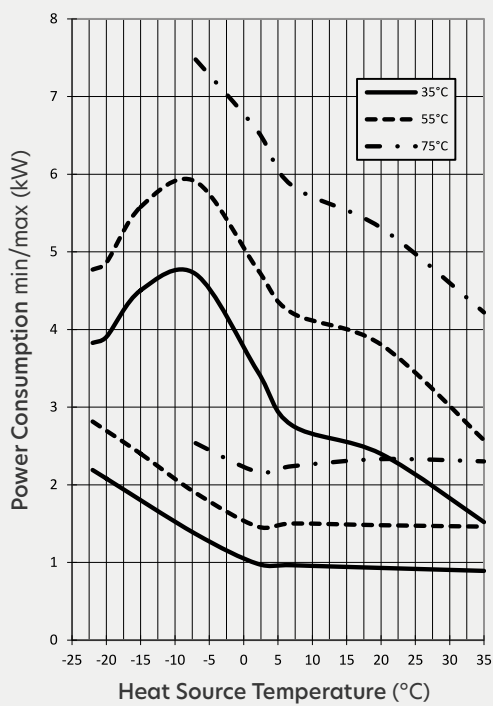
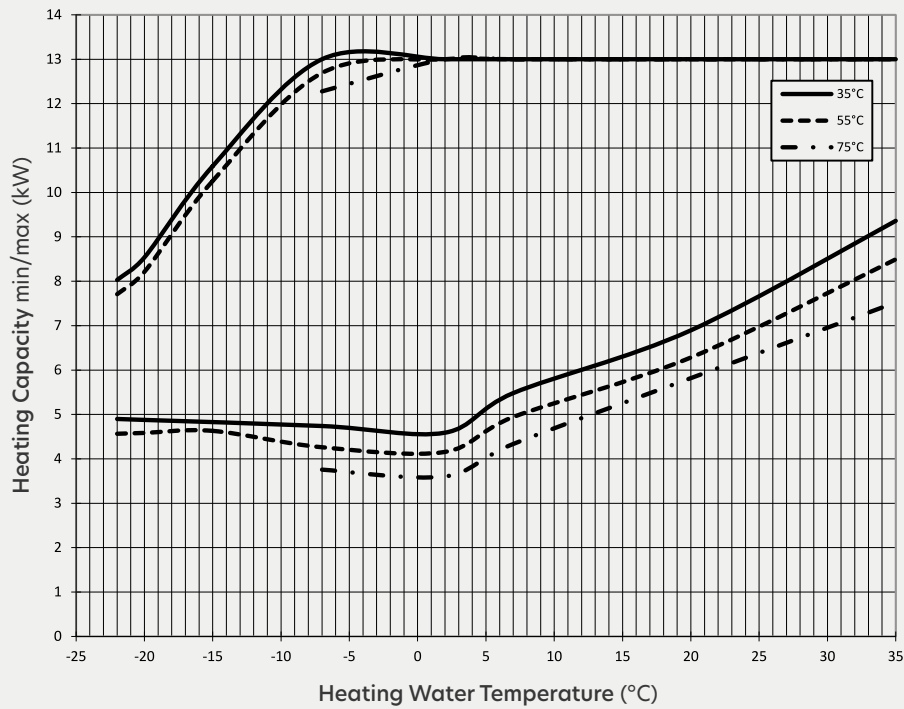


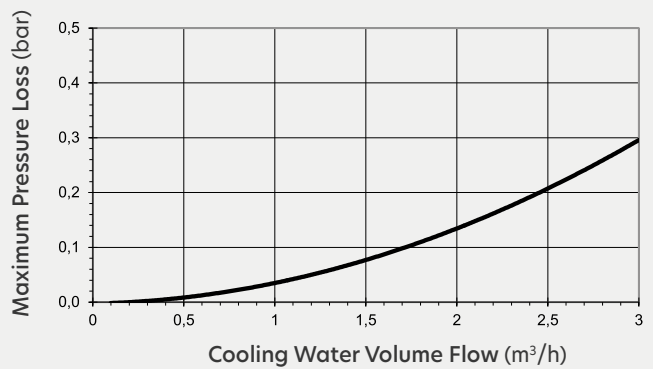
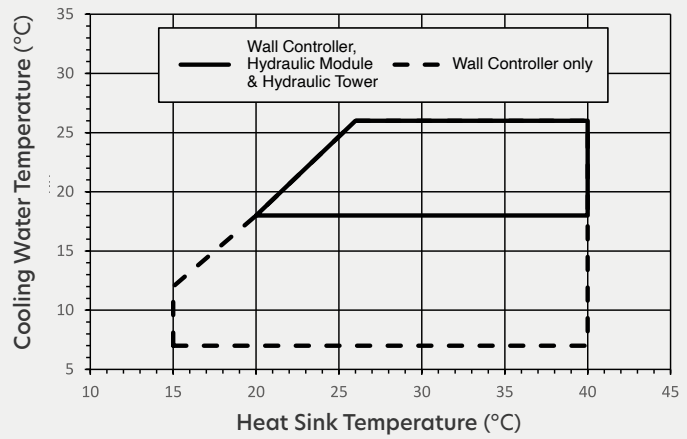
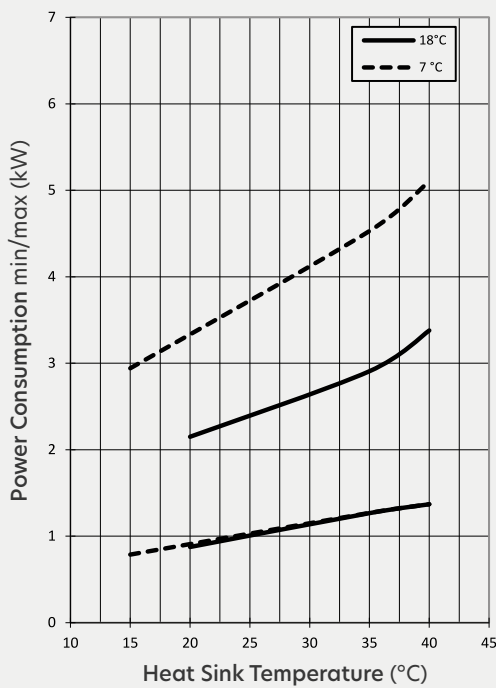
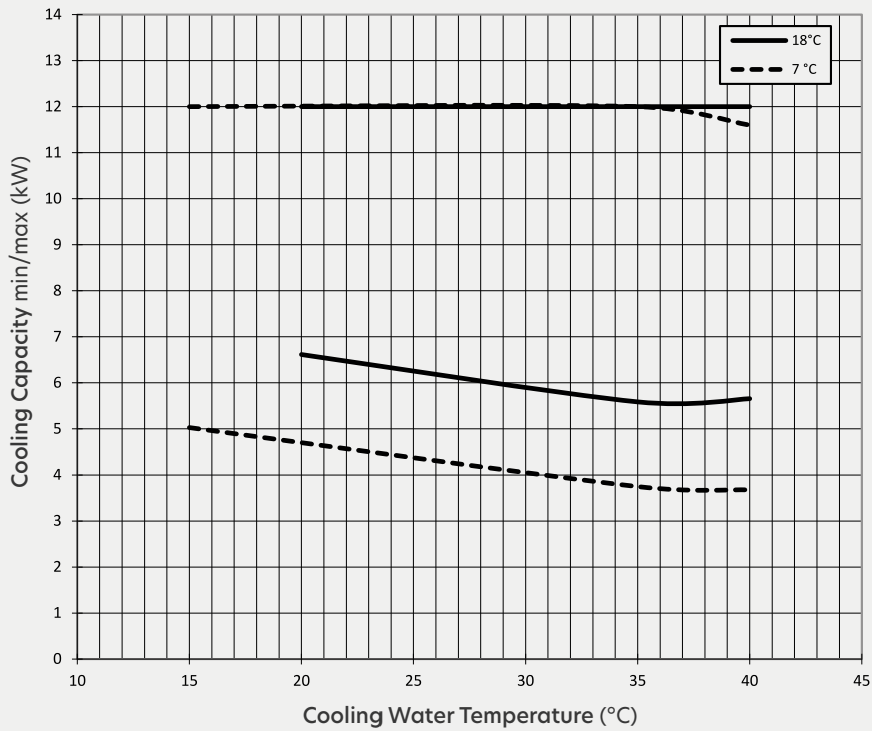
Heating & DHW











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