



● Best-in-class

Nova Series air-water modular heat pump system.

Forward temperatures up to 70 °C for commercial, light-industrial and local heat network retrofits or new-builds.

- ✓ Outstanding performance, from 45 kW to 1320 kW.
- ✓ Unique and scalable modular system.
- ✓ Flexible Plug & Play solution. Easy installation and maintenance.
- ✓ All in one box (integrated meters, circulation pump and water connection).
- ✓ Remote-control access & monitoring portal.
- ✓ Highly durable and robust design. Quality components.
- ✓ Low environmental impact (natural refrigerant R290).
- ✓ Compact design. Ideal for tight urban constraints.

Model		Nova 110	Nova 220	Nova 330	Nova 440
Performance					
Nominal COP (Ambient 7°C, Forward 45°C, Return 30°C)		3.73	3.93	4.01	4.04
Nominal heat capacity (Ambient 7°C, Forward 45°C, Return 30°C)	kW	98.0	193.6	289.8	384.9
Capacity range (min-max)	kW	45-110	45-220	45-330	45-440

ECO Design (per EN 14825:2018)

Energy class		A++			
SCOP (low temperature application 35 °C)		4.19 (modules connected in parallel)			
SCOP (medium temperature application 55 °C)		3.68 (modules connected in parallel)			

Operating range

Ambient temperature (air)	°C	-20 to 42 ¹			
Forward temperature (heating circuit)	°C	35 to 70 ²			

1) at reduced compressor speed, 2) with sufficiently stable+low return temperature

NOISE (at full capacity per EN 13487:2019)

Sound power level (@ source)	dB(A)	81.6	84.6	86.4	87.6
Sound pressure level (@ 1m distance)	dB(A)	62.0	64.4	65.0	66.0
Sound pressure level (@ 3m distance)	dB(A)	52.5	55.5	57.2	58.5
Sound pressure level (@ 10m distance)	dB(A)	42.0	45.0	46.8	48

Dimensions and weight

Length (not including electrical cabinet)	m	2.4	4.8	7.2	9.6
Width	m	1.54			
Height (without machine levelling shoes)	m	2.44			
Dry weight	kg	1,177	2,419	3,568	4,698

Refrigerant

Type		R290 (propane)			
Global warming potential (GWP)		0.02			
CO2 equivalent	kg CO2e	24	48	72	96
Charge	kg	1x8	2x8	3x8	4x8

Electrical

Supply	ph/V/Hz	3 / 400(+N+PE) / 50			
Supply connection (per pole max physical width)	mm	10 (cable pole)	30 (M8 connector)	30 (M8 connector)	30 (M8 connector)
Fuse protection rating	A	63	150	200	250
Input power (max)	kW	38.4	76.8	115.3	153.7
Electric power meter (MID approved)		Included			

Heating circuit

Forward and return connections ¹⁾ delivered with press crimp DN65 flange		1½" nipple	Ø76.1mm ¹	Ø76.1mm ¹	Ø76.1mm ¹
Nominal design flow	l/h	6,000	12,000	17,000	22,000
Largest allowed pressure drop	Bar	0.65	0.75	2.0	1,0
Minimum recommended buffer tank size	m³	1	2 (1x2)	3 (2x1.5)	4 (2x2)
Energy meter (MID approved)		Included			

Condensation drain

Connection type		Polypropylene (PP)			
Connection size	mm	Ø40			
Flow volume (max), summer operation, full capacity	l/h	150	300	450	600
Flow volume (max), winter operation, defrost	l/h	50	100	150	200

Communication

Remote access		4G (SIM card included) or RJ45 option			
Modbus-RTU		RS485			

Main components and specs

Compressors (semi-hermetic 6 cylinder)	pcs	1	2	3	4
Modulating frequency range	Hz	30-70			
Evaporator fin distance	mm	3.0			
1m-wide ventilators (EC technology)	pcs	2	4	6	8
Condenser plate heat exchangers	pcs	1	2	3	4
Hotgas plate heat exchangers	pcs	1	2	3	4
Subcooling plate heat exchangers	pcs	1	2	3	4
Ventilator - air volume	m³/h	48,000	96,000	144,000	192,000