

HEAT PUMP NEOHEAT STANDARD PLUS



nesheat

Fuji Electric

NEOHEAT STANDARD + HEAT PUMP

STANDARD +

NEOHEAT 8 S+ | NEOHEAT 11 S+
NEOHEAT 14 S+ | NEOHEAT 16 S+

STANDARD + HIGH POWER

NEOHEAT 11 S+ HP | NEOHEAT 14 S+ HP
NEOHEAT 16 S+ HP |

HEAT PUMP WITH HEATING DHW UP TO 60°C

COMPACT HEAT PUMPS ARE DESIGNED FOR HEATING SINGLE-FAMILY HOUSES AND DOMESTIC HOT WATER (DHW) WITH HIGH EFFICIENCY. A HEAT PUMP CAN ALSO CONTROL A SECOND SOURCE, E.G. SOLAR COLLECTORS, AND MORE.

The NEOHEAT STANDARD + heat pump has the ability of indoor heat and cold adjustment. The pump is also used to heat DHW and can be the main or complementary heat source. Each pump is equipped with a 6 kW electric heater (serving as a protection), an integrated 200 l steel tank for DHW, remote access and a touch control panel.

BASIC EQUIPMENT

- Integrated electrical heater 3 x 2 kW
- Speed-regulated circulating pump with low sound level up to 6 dB
- 8 l expansion vessel
- 2.5 bar safety valve
- Flow measurement and control sensor
- 3-way valve for DHW
- Heat balance calorimeter
- DHW output
- Stainless steel tank with a capacity of 200 l for DHW
- Floor drying/heating program
- Second heat source control
- Temperature control depending on external conditions
- Touch control panel

ACCESSORIES (OPTIONAL)

- Indoor unit temperature sensor
- NEOHEAT connection set
- PVC circulation pump - set
- NEOHEAT S+
- 3-way valve for mixing two heat sources
- 3-way zone valve for solar collectors
- Remote access for maintenance



NAME OF THE SERIES			NEOHEAT S+				NEOHEAT S+ HIGH POWER		
Type			Neoheat 8 S+	Neoheat 11 S+	Neoheat 14 S+	Neoheat 16 S+	Neoheat 11 S+ HP	Neoheat 14 S+ HP	Neoheat 16 S+ HP
Efficiency	Low temp.	kW	8	10.5	14	15	11	13	14
	Indirect temp.	kW	8	9	11	13	9	11	13
Bivalent point	Low temp.	°C	-7	-7	-7	-7	-7	-7	-7
	Indirect temp.	°C	-7	-6	-6	-6	-7	-7	-7
Seasonal energy efficiency (Eu 811, 813/2013)	Low temp.	%	155	150	148	148	154	150	149
	Indirect temp.	%	113	112	114	114	112	117	116
	Class		A++	A++	A+	A+	A++	A++	A+
SCOP			3.95	3.83	3.78	3.78	3.93	3.83	3.80
+2°C / +35°C (EN 14511)	Efficiency*	kW	8	10	13	14	11.1	14	15.1
	COP**		3.5	3.45	3.6	3.5	3.55	3.55	3.45
Annual energy consumption	Low temp.	kWh	4,415	5,600	6,815	7,998	5,930	6,738	7,408
	Indirect temp.	kWh	5,415	6,418	7,712	8,347	6,669	7,803	9,062
Cooling capacity	+40°C / +15°C		7.5	9.5	12	13.3	9.5	11.9	14
EER		kW	3.21	2.9	3.22	3.01	3.22	3.01	2.9
DHW	L								
Annual DHW energy consumption		kWh	880	880	1166	1166	1166	1166	1166
Efficiency during DHW heating		%	120	120	88	88	88	88	88

INDOOR UNIT

nesheat

Efficiency of electric heaters	Capacity	kW	6.0 (3 x 2 kW)						
Sound power level		dB(A)	42						
Dimensions	H x W x L	cm	211 x 63 x 63						
Weight	net	kg	186						
Condensation exchanger	stainless steel tank								
Max. lifting height of the pump		m	18						
Overpressure relief		MPa	0.25						
Heat circuit connection	G1, "female thread								
Pump efficiency	indoor unit	m	7.5						
Nominal flow of heated water		l/h	950	1,360	2,400	2,700	1,360	2,400	2,700
Circulation pump	Low-energy, according to the ERP Directive								
Counter-current protection		A	3 x 25	3 x 25	3 x 25	3 x 25	3 x 25	3 x 25	3 x 25
DHW tank		l	200						

OUTDOOR UNIT

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Power supply	Ph/V/Hz		1/230/50				3/400/50		
Current consumption	Max.	A	17	20	20.5	12	10.5	11.5	12.5
Fan motor	DC - variable speed								
Sound power level		dB(A)	69	69	69	70	69	69	70
Net dimensions	H x W x L	cm	83 x 90 x 33	83 x 90 x 33	129 x 90 x 33	129 x 90 x 33	129 x 90 x 33	129 x 90 x 33	129 x 90 x 33
Weight	net	kg	68	68	86	86	93	93	93
Refrigerant	R410A								
Amount of refrigerant in the device		kg	2.1	2.1	3.35	3.35	2.7	2.7	2.7
Cooling lines	Diameter	Liquid	mm	ø 9.52					
		Gas	mm	ø 15.88					
	Length	Min. / Max.	m	5/50	5/50	5/50	5/50	5/50	5/50
	Length (not recharged)	Max.	m	20	20	20	20	20	20
	Max. level difference	Max.	m	30	30	30	30	30	30
Working temperature range		°C	-15 ~ 24				-20 ~ 35		
Max. water heating temperature		°C	55				60		
Min. water heating temperature		°C	15						
Compressor	DC - inverter (variable speed)								
Cooling circuit adjustment	electronic expansion valve								
Evaporator	Al-Cu vertical								
Airflow		m³/h	3,600	3,600	6,200	6,850	6,850		
Thawing	With hot gas through a non-return valve								
Limit for relative humidity	15 - 95%								

* 100% compressor operation.