



MAIN FEATURES

Copeland EVI Inverter compressor provides high energy efficiency and guaranties availability of sufficient heating (up to 9kw) during -20C winter weather

Out-put water +20 to +60 at Air -20 to +35

High COP: 4.2 at Air +2C / Water +35C

Low noise level: 35-50dB at 1m (depend on Air temperature)

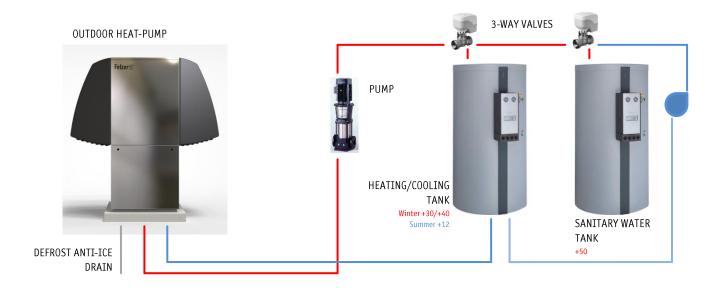
Stainless steel and Aluminium cabinet with (optional) multiple decorative panels results in aesthetic appearance and long life of the NordicLIGHT heat pump units

NO ICE / NO BACKUP HEATING NEEDED / NO REFRIGERANT PIPES OUTSIDE THE UNIT

OUT-DOOR and IN-DOOR installation available

STANDART INSTALLATION AND CONNECTIONS

In the winter mode the unit heats the water for spaces heating (+35C to +45C) or for sanitary water heating (+60C). In the summer mode the unit cools the fancoils (+7C) or heats the sanitary water. Pumps and valves can be controlled from the unit controller.



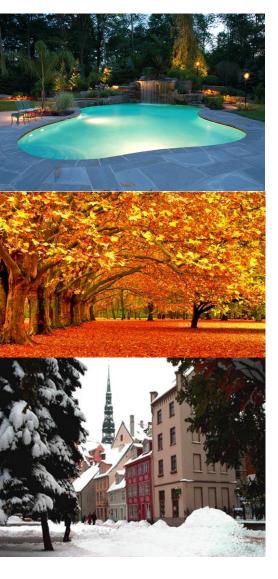
See the installation manual for detailed connection and control schemes.

TECHNICAL LAYOUT

Nordic LIGHT	161A: Outdoor installation
	161L: Indoor ducted installation. Left airflow
	161R: Indoor ducted installation. Right airflow

erformance Da ater supply 35			Technical Dat Dimensions	ta			
Outdoor Air	heating cap	СОР		Н	W	L	
+7C	5.6-16.1 kw	4.76 (at 9.5 kw)	Outdoor (161A)	1780	1050	1900	
+2C	4.0-12.5 kw	4.02 (at 7.6 kw)					
-7C	4.0-12.5 kw	2.94 (at 12.5 kw)	Indoor ducted	1780	1050	800	
-20C	4.0-9.0 kw						
<-20C	9.0 kw	1.0	(161L/R)				
		(flow throw heating)	Weight: 300 kg				
Water supply 55	С		Power supply HP: 3Ph/N/PE	E/400V/50Hz	(C25)		
Outdoor Air	heating cap	COP	Control board: 1Ph/N/PE/400V/50Hz (B16) Electrical heater: 3Ph/N/PE/400V/50Hz (B16) Max. power consumption: 9 kw (8 kw at heat pump				
+7C	6.5-17.1 kw	3.31 (at 12 kw)					
-7C	4.0-13.4 kw	2.30 (at 13.4 kw)					
-20C	4.0-9.0 kw		mode) + 0.1 kw pump				
<-20C	9.0 kw	1.0 (flow throw	Max. current: 22A +0.7A pump Refrigerant: R410a / 3.8 kg				

APPLICATIONS PATTERNES



Summer operation Air above +10C

HEAT PUMP 35 dB at 1 m. Fans and compressors work at reduced speed.

Sanitary water heating up to +65C

Pool heating. Typically one NordicLIGHT HP is sufficient for 25 sq. m water surface +27C exposed to ambient air +12C (calculation of local specialist is required)

WATER CHILLER

NordicLIGHT can be used in chiller mode for all air-conditioning applications

Midseason – Southern winter operation Air from OC to +10C HEAT PUMP 45-55 dB at 1 m. Fan works at full speed and compressor works at reduced speed. Very low noise for comfort heating

EVI compressor and evaporator of special design decrease defrost

time, while increasing net COP

Under-floor heating +35C Convection or air-blower heating +45C to +55C

Sanitary water heating up to +65C

Northern winter mountains operation Air below OC HEAT PUMP Long operation under below-zero weather conditions with no frost. All water is drained from the unit. Under-

floor/underground piping and flow through heater for all winter antifreeze operation

EVI compressor and evaporator of special design decrease defrost time, while increasing net COP

Low capacity drop due to possibility to increase the compressor

speed. Only COP is reduced

Under-floor heating +35C

Convection or air-blower heating +45C to +55C

Sanitary water heating up to +65C

OUTDOOR DESIGN

You can choose the design of panels that suits best Your outdoor environment.



stainless steel panels



aluminium panels



corten steel panels



decorative panels (incl. photos on aluminium)

FELZER PARTNERS

NordicLIGHT heat pump is developed by Felzer SIA with Copeland EVI scroll compressor inside. External design made by FORMA.

OUR CONTACTS

Felzer, SIA

Riga, Latvia, LV-1039, Brivibas gatve, 201 +371 678 82 102 info@felzer.lv Felzer CZ, S.R.O.

170 00 Praha 7 Jankovcova 1037/49 +420 778 038 666 Felzer, S.L.

Avenida Marina Baixa, 19, Edificio Edimar 7, local 7, La Nucí a, C.P. 03530, Alicante, Spain +34 671 453 001 info@felzer.es

