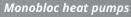


NEXUS M9/M14/M17 PRO





The Nexus PRO series of heat pumps is designed with the latest technology designed to work with natural refrigerant R290. An inverter compressor was used, which allows the heat pump's performance to be adjusted to demand. The PRO series heat pumps can reach the temperature of the heating system supply water up to 67°C. In addition, a high-performance brushless ECtype fan with variable speed control has been used to ensure

optimum efficiency while maintaining the lowest possible noise level. Other advantages of the unit include, compact housing, control system for heating circuits in the building and intelligent defrosting system to ensure efficient operation in all conditions.



Main features

- > Automation provides infinite capacity control of the compressor, fan and circulating pump;
- > The standard control regulates the operation of the heat pump and heating circuits for central heating and hot water;
- > The heat pump can operate in cooling mode. It is recommended to use this mode in an installation with floor heating systems;
- > The device is equipped with an automatic defrosting system using hot gas by reversing the circulation;
- > It has built-in temperature and pressure protection for the refrigerant circuit;
- > The control system, by regulating the components of the heat pump, seeks to maintain the parameters of the refrigeration system during operation so that they do not go beyond the acceptable operating range;
- > Active protection against freezing of the water circuit also during cooling operation (requires elec. power supply);
- > Passive antifreeze protection of the water circuit, without electrical supply (when the water circuit is equipped with a thermostatic antifreeze valve);
- > The ability to operate the heat pump using the weather control function;
- Fan with energy-efficient electronically commutated (EC) brushless > motor;
- > Supply water temperature up to 67°C;
- > Hydrophilic-coated evaporator;
- > The heat pump can operate in surface heating and radiator systems.



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NEXUS M9 PRO

NEXUS M14 PRO

NEXUS M17 PRO

Technical specifications

SCOP (W35) moderate climate	kWh/kWh	4,79	5,02	4,81
SCOP (W55) moderate climate	kWh/kWh	3,61	3,73	3,83
A7/W35 heating power / COP	kW /-	from 4,1 to 10,0 / from 4,47 to 4,98	from 5,0 to 13,6 / from 4,69 to 5,20	from 6,1 to 16,7 / from 4,22 to 5,10
Energy efficiency class W35/W55		A+++ / A++	A+++ / A++	A+++ / A+++
Compressor		Mitsubishi Scroll		
Cooling mode			Yes	
Ambient temp. min/max in cooling mode	°C	17 / 40		
Ambient temp. min/max in heating mode	°C	-25 / 40		
Recommended heating water flow rate	m³/h	1,65	2,35	2,90
Working medium			R290	
Amount of working medium		2,45	2,8	2,8
Defrosting type	kg		hot gas (reverse circulation)	
Sound power level L_{WA} acc. to EN12102	dB(A)	52	52	52
Sound pressure** at 5m distance	dB(A)		30	
Water connection	cal		1 IG	
Primary circulation pump		Grundfos 25-75	Grundfos 25-75	Grundfos 25-105
Dimensions				
L x W x H	mm	1186 x 667 x 762	1250 x 667(750)* x 1055	1390 x 667(750)* x 1055
Weight	kg	160	170	173
Electrical connection				
Power supply			400V 3~ 50Hz	
Power cable	mm ²		5x4,0	
Maximum operating current	А	11,6	19,7	20,4
Maximum start-up current	А		<5	

* total width including mounting skid.

** The quoted sound pressure applies to the free-standing heat pump



Technical specifications

Dimensions (L x W x H)		129 x 351 x 299
		120 / 001 / 200
Weight	kg	3,3
Electrical connection		230V / 50Hz**
Max. heater power***		6 kW

** When connecting optional 400V heater,

400V 3~ 50Hz power supply should be used.

*** The heater is not an element of the Insyg Alfa.



Control module with user panel for Nexus M Pro Heat Pumps.

Main features

- Control of 2 heating circuits with mixing valves according to the heating curve;
- Switching the circuit between central heating and DHW according to demand (DHW priority);
- Switching on an electric heater as a heating support, emergency source or for heating domestic water;
- > Control of DHW circulation pump;
- > Schedule for central heating and for DHW;
- > User panel with 4.3" touch-screen graphic display;
- > Graphic display of heat pump and heating circuit operating parameters.
- > Can be connected to the Internet module through the MODBUS communication port.



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