

Dimplex Air-to-Water Heat Pumps

Heating and Cooling with a single system



LI 8MS and MSR

Dimplex LI 8 MS Air-to-Water Heat Pumps for Indoor Installation

The air-to-water heat pumps of compact design save valuable space and are easy to install. The most important components of the heating circuit such as heating system circulation pump, 50 l buffer tank with integrated 2 kW immersion heater, overflow valve, expansion vessel and safety valve with pressure gauge, are completely integrated into the air-to-water heat pump. This also applies to the heat pump controller (manager) with LC display.

LI 8 MSR: heating and cooling with a single system

Based on the LI 8 AS series, the MSR model also features a reversible refrigeration cycle for heating and cooling applications. An additional built-in controller is provided to control the cooling operation in the summer.

Until now heating and cooling have primarily been confined to the luxury building sector.



The solution: the reversible heat pump from Dimplex – switched to “cooling”

With our reversible air-to-water heat pump Dimplex offers a central heating/cooling system in one single unit – in conjunction with a control concept which makes all this possible. In winter the heat pump functions as an energy-efficient heating device. Alternatively, by reversing the heat pump process the system is usable as a refrigerating machine in summer. Thus the reversible heat pump can be used for both “silent” (e.g. surface heating/cooling systems) and “dynamic” cooling (e.g. fan convectors).



Space-saving installation of LI 11 MS and MSR with built-under buffer tank and air ducts



Air-to-water heat pump LA 11 MS and MSR for outdoor installation

Dimplex LI 11 MS and MSR (Reversible) Air-to-Water Heat Pump for Indoor Installation

Our compact units fit into nearly any basement room and are suited for both stand alone or integrated heating systems. In either case, we provide leading edge technology along with extremely high energy efficiency and a minimum space requirement. Air ducting is effected by means of air ducts or hose kits (accessories).

Dimplex LA 11 MS and MSR Air-to-Water Heat Pumps for Outdoor Installation

Robust, powder-coated metal housings with a corrosion-resistant stainless steel base reliably protect the air-to-water heat pumps installed in your garden against moisture, wind and rain. Ordinary paving slabs can be used as a foundation for the Dimplex heat pumps. To connect the heat pump to the heating system inside the house, insulated supply and return pipes as

well as the electrical cable connections are buried in the ground. Built-in frost protection functions are designed to keep the heat pump ready for operation at all times.

- ⊗ Operation temperatures from +35°C down to -20°C.
- ⊗ Air deflector hoods for minimum sound transmission.
- ⊗ Compact outer dimensions.

Commercial Description And Type	Indoor Installation				Outdoor Installation	
	LI 8 MS	LI 11 MS	LI 8 MSR Reversible	LI 11 MSR Reversible	LA 11 MS	LA 11 MSR Reversible
Performance Data						
Operating temperature limits heating water supply	max 55	max 55	max 55	max 55	max 55	max 55
Operating outside temperature limits °C			+15 to +40	+15 to +40		+15 to +40
Operating temperature limits cooling supply °C			+7 to +20	+7 to +20		+7 to +20
Heating capacity/coeff. of perform. at A-7 / W35 kW / -	5,8 / 2,7	7,6 / 2,9	5,8 / 2,7	7,5 / 2,8	7,6 / 2,9	7,5 / 2,8
at A2 / W35 kW / -	7,5 / 3,3	9,1 / 3,4	7,5 / 3,3	8,9 / 3,4	9,1 / 3,4	8,9 / 3,4
at A2 / W50 kW / -	7,0 / 2,5	9,0 / 2,5	7,0 / 2,5	8,8 / 2,5	9,0 / 2,5	8,8 / 2,5
at A7 / W35 kW / -	9,3 / 3,9	10,9 / 4,1	9,3 / 3,9	11,1 / 4,2	10,9 / 4,1	11,1 / 4,2
at A10 / W35 kW / -	9,8 / 4,1	12,0 / 4,6	9,8 / 4,1	12,1 / 4,6	12,0 / 4,6	12,1 / 4,6
Cooling capacity/coeff. of perform. at A27 / W7 kW / -	-	-	7,8 / 2,7	8,8 / 2,8	-	8,8 / 2,8
at A27 / W18 kW / -	-	-	9,6 / 3,2	10,9 / 2,5	-	10,9 / 3,3
at A35 / W7 kW / -	-	-	7,0 / 2,0	7,6 / 2,1	-	7,6 / 2,1
at A35 / W18 kW / -	-	-	8,5 / 2,4	9,5 / 2,5	-	9,5 / 2,5
Sound power level in front of the product / outside dB(A)	53	55 / 61	53	55 / 61	61	61
Nominal power Consumption A2 / W35 kW	2,3	2,65	2,3	2,61	2,65	2,61
Refrigerant; total charge weight type / kg	R404A / 2,0	R404A / 2,5	R404A / 3,3	R404A / 3,6	R404A / 2,5	R404A / 3,6
Heating water flow rate at internal pressure difference m³/h / Pa	0,8 / 2700	1,0 / 3000	0,8 / 2700	1,0 / 3000	1,0 / 3000	1,0 / 3000
Air flow rate at internal pressure difference (heat source) m³/h / Pa	2500 / 20	4200 / 25	2500 / 25	4200 / 25	2500 / -	2500 / -
Equipment dimensions without connections H x W x L mm	75 x 190 x 65	75 x 136 x 85	75 x 190 x 65	75 x 136 x 85	136 x 136 x 85	136 x 136 x 85
Weight of transport unit(s) incl. packaging kg	245	200	250	205	219	224
Air hoses dimensions cm	44 x 44	50 x 50	44 x 44	50 x 50	-	-

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