

AIRWATT_{SERIES}

heat capacitiz **10 to 100 kW**

for compressor capac. **15 to 132 kW**

APPLICATIONS

- heat recovery in oil lubricated rotary screw compressors

HEAT RECOVERY UNITS

DESCRIPTION

Compressors in their process of air compression consume energy, which is converted into pressure energy of compressed air. The consequence of the air compression is the generation of heat, which can cause overheating of the system, and thus damage of system components.

Classical systems of the screw compressor have a regulated air cooling of the lubricating oil, which means that the excess heat is discharged into the ambient by the fan. In this way the heat is completely lost.

This heat can be useful and at no additional cost exploited for heating of domestic hot water or water for central heating system.

AirWATT - external heat recovery system is a perfect system for this application. The unit has two separate piping systems - water and oil circuit with counterflow media. The heat through the heat exchanger passes from the hot oil of the compressor to the cold water system and the heating is thereby heated.

The unit is controlled by means of a thermostatic valve, which prevents oil freezing and thus possible damage to the compressor.





TECHNICAL DATA

Type	Motor power	Heat capacity	Oil connection	Water connection	Dimensions [mm]			Mass
	kW	kW	G	G	A	B	C	kg
AirWATT 22	15-22	12-17,6	1 1/4"	1"	360	500	760	33
AirWATT 37	26-37	20,8-29,6	1 1/4"	1"	360	500	760	35
AirWATT 75	45-75	36-60	1 1/4"	1"	360	500	760	42
AirWATT 100	90-132	72-100	2"	2"	450	600	860	58

TECHNICAL SPECIFICATIONS

Operating pressure (oil)	1 - 16 bar
Maximum water pressure	10 bar
Operating temperature	5°C - 120°C
Max. outlet water temperature	70°C
Pressure drop (oil)	~ 100mbar
Ambient temperature	5°C - 45°C
Water temperature indicator	Analog mechanical

Type	Classification according to Pressure Equipment Directive PED 97/23 / CE (fluid group 2)
AirWATT 22	not necessary
AirWATT 37	not necessary
AirWATT 75	not necessary
AirWATT 100	not necessary

