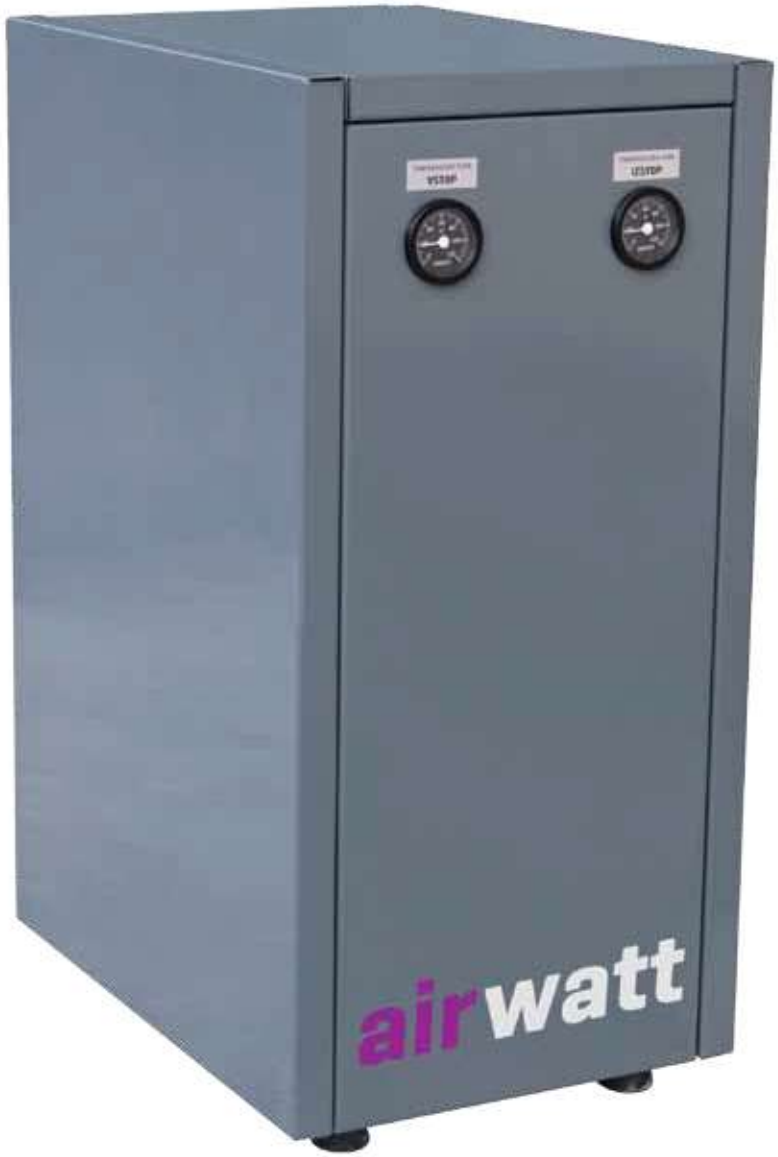
AIRWATT SERIES

HEAT RECOVERY UNITS

10 to 100 kW
heat capacity

15 to 132 kW
for compressor capacity



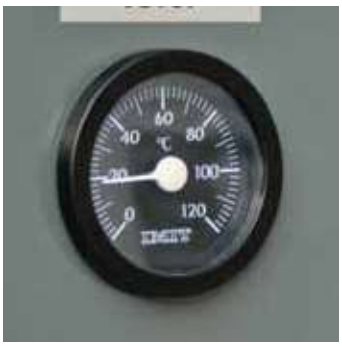
DESCRIPTION

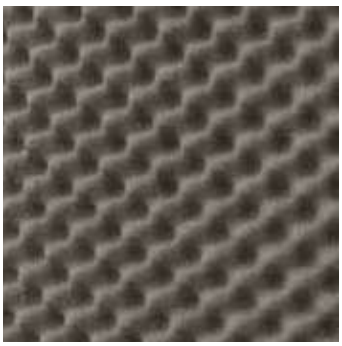
Classical systems of the screw compressor have a regulated air cooling of the lubricating oil, which means that the excess heat is discharged into the ambient by the fan. In this way the heat is completely lost.

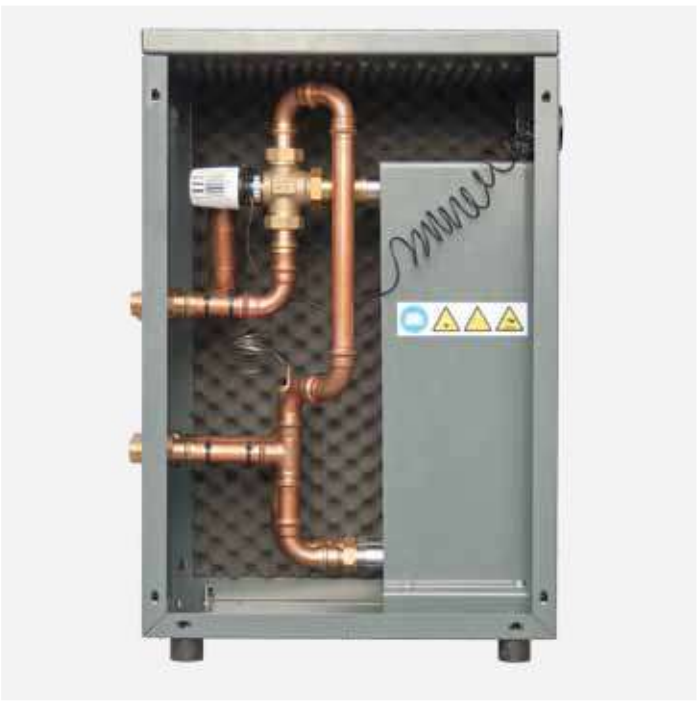
External heat recovery unit - AirWatt is designed to efficiently exploit the waste heat, generated during compression of air in rotary screw compressors. Sometimes this represents more than 70 % of energy consumed by the rotary screw compressor for the operation. This heat can then be used to heat domestic water or for heating, at almost no additional costs. This does not only help save money, but is also environmentally friendly. Unit has two separate piping systems with counter flow. Energy exchange from compressor to sanitary water occurs in plate heat exchanger, where compressor oil and sanitary water meets. Unit is controlled by thermostatic valve, which prevents compressor system getting to cold and damaging compressor.

APPLICATIONS

- Heat recovery in oil lubricated rotary screw compressors







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)	~ 100 mbar
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