Portable Moisture Extraction Systems MEX

APPLICATION
Abrasive blast cleaning, paint spraying with a pneuamtic drive, guniting, and construction and road works using pneumatic tools.

Moisture extraction systems MEX remove condensate and oil from the air stream during abrasive blast cleaning. Condensate and oils in the abrasive blast cleaning system lead to the caking of abrasive material and potential blocking of the metering valves, hoses and nozzles. Dry and cleaned compressed air prevents caking of abrasive material, increases performance and reduces maintenance costs. Moisture extraction systems MEX are an efficient means of removing up to 95% of condensate and oil which are commonly present in compressed air. Dry air prevents moist abrasive material, which would lead to increased wear, downtime and extra servicing.

The MEX-P aftercooler

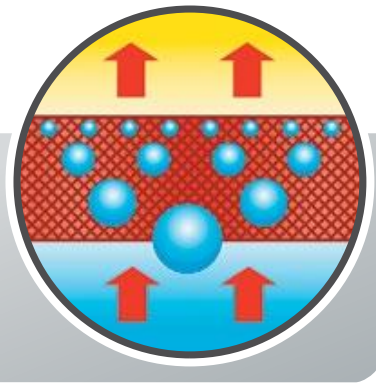
is fitted with a pressure controller for controlling the air flow of the fan, and a filter and a lubricator to ensure the long service life of the pneuamtic drive.

The MEX-E aftercooler

is fitted with a contactor starter with dampproof and dust-proof casing.

Moisture Extraction Systems MEX

are equipped with both cyclone and coalescing separators capable of eliminating up to 95% of condensed moisture from compressed air.



Coalescence element

The compressed air inside the receiver passes through a mesh coalescing element. Moisture and oil are deposited on the grid coalescence element and, when confronted, form large drops, which under the action of gravity fall to the bottom of the filter.

Designed for operation

With any brand of portable and stationary screw compressor unit. Compressed air flowing from a diesel compressor has a high temperature of approximately 90°C. At such a temperature, compressed air contains a large amount of moisture in the form of steam vapour. If an aftercooler and cyclone condensate separator are not used, compressed air can add up to 21.5 litres of water per hour into the system with a compressor operating at 5.7 m³/min capacity and a pressure of 7 bar. Moisture extraction systems MEX cool compressed air to a temperature 3° C - 10° C higher than the ambient temperature. Once the air is cooled, vapour moisture condenses and up to 95% of condensed moisture may be eliminated from the system.

Functional characteristics

- durable full welded construction
- pneumatic or electric drive
- efficient cyclone separator
- distributing header to three or four ball valves
- pressure controller / filter / lubricator (MEX-P)
- contactor starter in sealed casing (MEX-E)
- lifting lugs and forklift slots

Technical data	MEX-E-1	MEX-E-2	MEX-E-3	MEX-P-1	MEX-P-2	MEX-P-3
Maximum working pressure, bar	12					
Capacity, m³/min	20	30	45	20	30	45
Voltage, V	380~ /50 Hz			-	-	-
Power, kW	0,135	0,820	0,830	-	-	-
Pressure of air motor min/max, bar	-			2 / 6		
Consumption of compressed air with min/max pressure of air motor, m³/min	-			0,6 / 1,4		
Thread connection, inlet	1½"	2"	3"	1½"	2"	3"
Thread connection, outlet	1x¾" 1x1" 1x1¼"	1x¾" 1x1¼" 1x1½"	1x¾" 1x1¼" 2x1½"	1x¾" 1x1" 1x1¼"	1x¾" 1x1¼" 1x1½"	1x ¾" 1x 1¼" 2x1½"

Order code	Model	Description
14380001	MEX-P-1	Moisture extraction system, capacity 20 m³/min, pneumatic drive
14380002	MEX-P-2	Moisture extraction system, capacity 30 m³/min, pneumatic drive
14380003	MEX-P-3	Moisture extraction system, capacity 45 m³/min, pneumatic drive
14380011	MEX-E-1	Moisture extraction system, capacity 20 m³/min, electric drive
14380012	MEX-E-2	Moisture extraction system, capacity 30 m³/min, electric drive
14380013	MEX-E-3	Moisture extraction system, capacity 45 m³/min, electric drive