

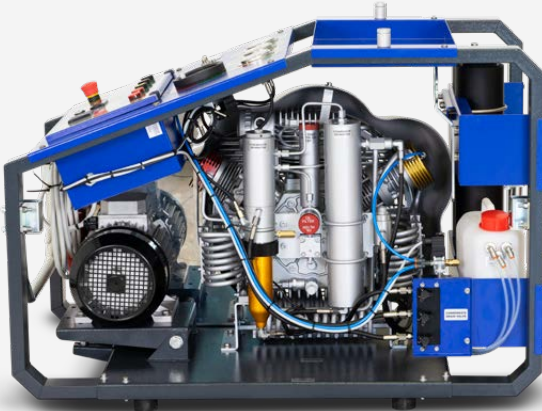
# ERGO TPS

LINE: PRIME

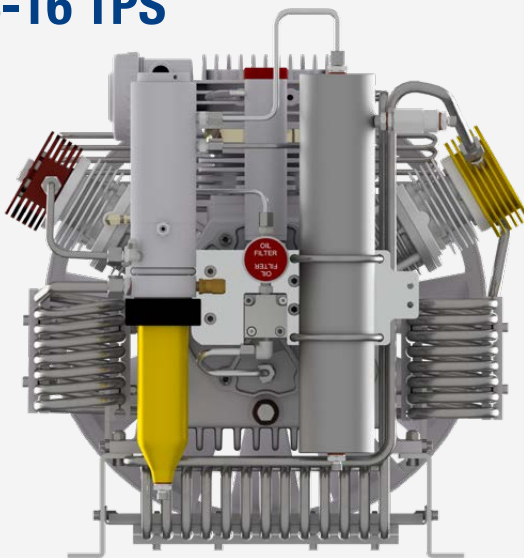


## DESCRIPTION

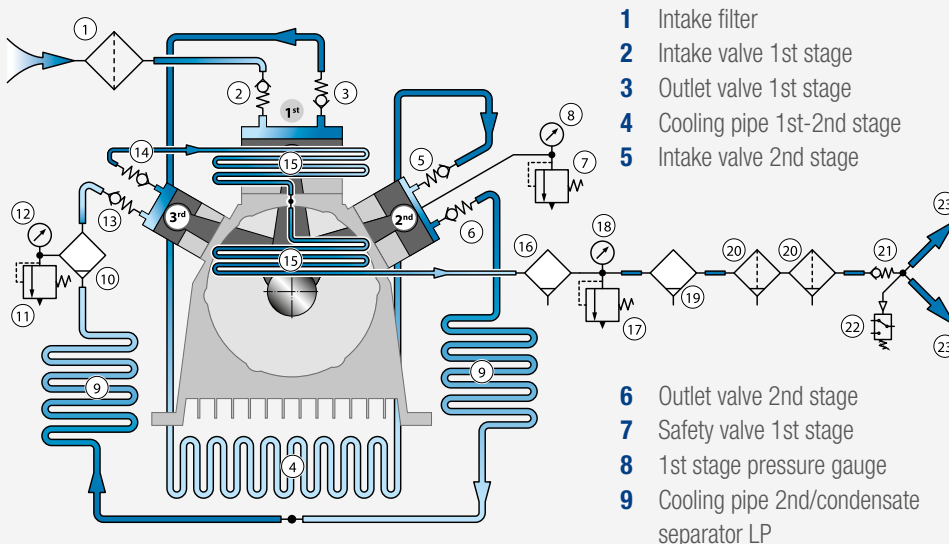
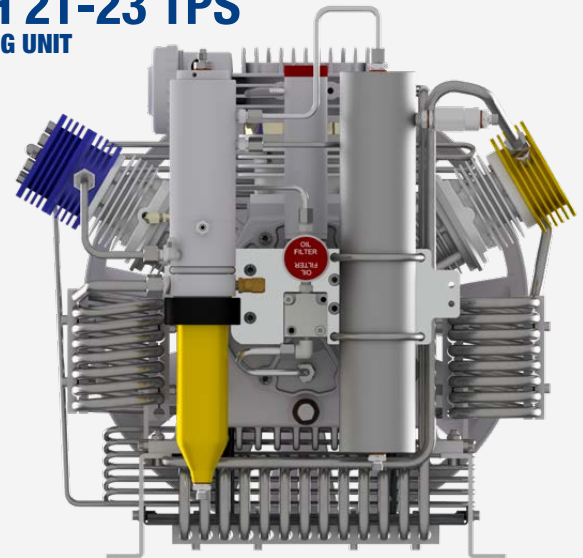
Compactness, performance, robustness and portability are the main features of the ERGO TPS breathing air compressors. Equipped with four different pumping units (MCH 13, MCH 16, MCH 21 and MCH 23), all with TPS (Tropical Plus Superdry) and powered by three-phase electric motors. Each ERGO compressor has a monitoring system panel that includes a pressure gauge, autostop with adjustable pressure switch, automatic condensate drain and a phase control for rotation direction. The models of this series have two connections for high pressure hoses (from 232 to 330 bar) and an improved filtering system with two Hyperfilters.



### MCH 13-16 TPS PUMPING UNIT



### MCH 21-23 TPS PUMPING UNIT



- |                                            |                                            |
|--------------------------------------------|--------------------------------------------|
| 1 Intake filter                            | 10 Condensate separator LP                 |
| 2 Intake valve 1st stage                   | 11 Safety valve 2nd stage                  |
| 3 Outlet valve 1st stage                   | 12 2nd stage pressure gauge                |
| 4 Cooling pipe 1st-2nd stage               | 13 Intake valve 3rd stage                  |
| 5 Intake valve 2nd stage                   | 14 Outlet valve 3rd stage                  |
|                                            | 15 Aftercooler                             |
|                                            | 16 Condensate separator HP                 |
|                                            | 17 Safety valve                            |
|                                            | 18 Pressure gauge                          |
|                                            | 19 Condensate separator HP High efficiency |
| 6 Outlet valve 2nd stage                   | 20 Purifier filter                         |
| 7 Safety valve 1st stage                   | 21 Pressure maintenance valve              |
| 8 1st stage pressure gauge                 | 22 Pressure switch                         |
| 9 Cooling pipe 2nd/condensate separator LP | 23 Flex hoses                              |



# TECHNICAL DATA

	MCH 13	MCH 16	MCH 21	MCH 23
DRIVEN BY	THREE-PHASE ELECTRIC MOTOR	THREE-PHASE ELECTRIC MOTOR	THREE-PHASE ELECTRIC MOTOR	THREE-PHASE ELECTRIC MOTOR
ENGINE POWER	4 kW - 5.5 Hp	5.5 kW - 7.5 Hp	7.5 kW - 10 Hp	7.5 kW - 10 Hp
CHARGING RATE	235 l/min - 14.1 m³/h 8.3 CFM FAD	315 l/min - 18.9 m³/h 11.1 CFM FAD	345 l/min - 20.7 m³/h 12.2 CFM FAD	380 l/min - 22.8 m³/h 13.4 CFM FAD
FILLING TIME*	8 min. 30 sec.	6 min. 20 sec.	5 min. 40 sec.	5 min. 10 sec.
WORKING PRESSURE	232 - 300 - 330 bar 3365 - 4351 - 4786 psig	232 - 300 - 330 bar 3365 - 4351 - 4786 psig	232 - 300 - 330 bar 3365 - 4351 - 4786 psig	232 - 300 - 330 bar 3365 - 4351 - 4786 psig
NET WEIGHT APPROX.	174 kg - 384 lb	184 kg - 406 lb	184 kg - 406 lb	184 kg - 406 lb
NOISE	80.7 dB	82.3 dB	83 dB	83 dB

\*Filling time cylinder 10 l-0/200 bar (measured by filling cylinder from 0 to 200 bar ±5%)

Available on request: MCH 13 SINGLE-PHASE ELECTRIC MOTOR / MCH 16 SINGLE-PHASE ELECTRIC MOTOR.

## STANDARD



DRV 232 bar - 3365 psig  
DRV 300 bar - 4351 psig  
2 valves DRV (Pag. 59)



Filling hoses  
2 filling hoses 1.2 m - 3.9 ft length



Automatic condensate drain



Pressure gauges  
interstage control



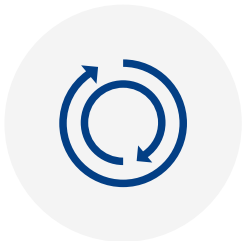
Double hyperfilter filtration  
PED certificated  
(Pag. 61)



Pressure switch  
auto shut off



Thermostat  
Cabin temperature  
thermostat/auto shut off



Phase controller  
that prohibits reverse rotation

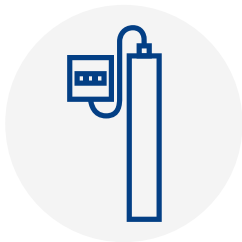


Oil level  
switch/auto shut off



Oil pump

## OPTIONAL



Presec  
visual filtration saturation indicator  
(Pag. 49)

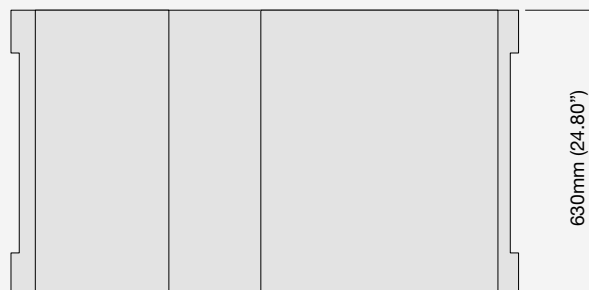
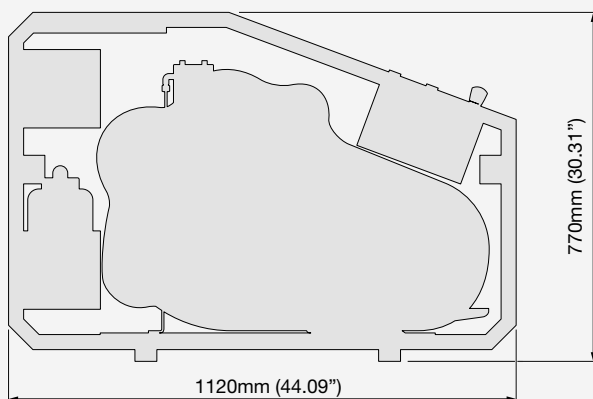


Remote filling panels  
(Pag. 58)

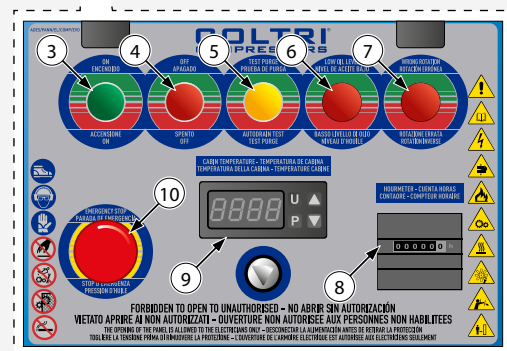
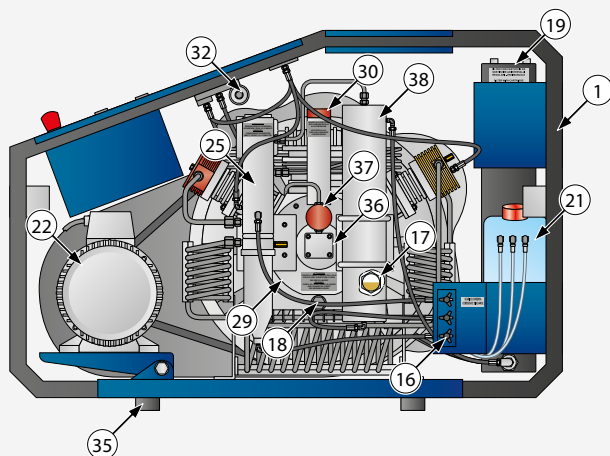
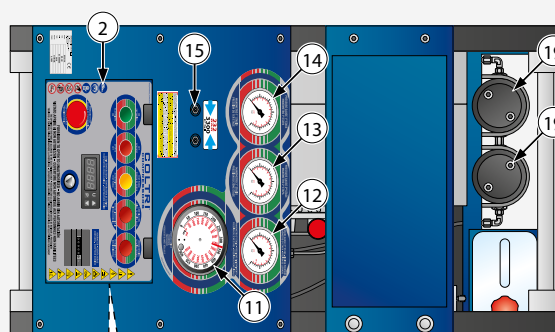
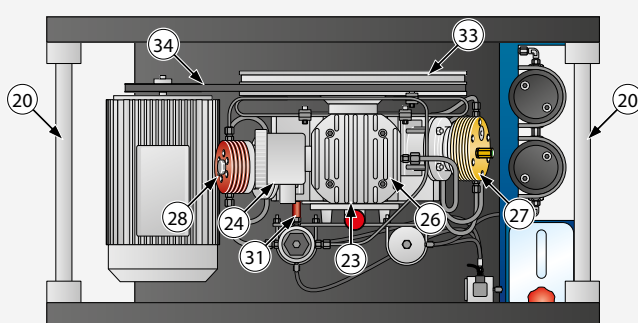


Filling hoses  
length: 1.5 - 2 - 3 - 4 - 5 - 8 - 10 m  
4.9 - 6.5 - 9.8 - 13.1 - 16.4 - 26.2 - 32.8 ft

## DIMENSIONS



## MACHINE PARTS



- |                                              |                                |                            |
|----------------------------------------------|--------------------------------|----------------------------|
| 1 Frame                                      | 14 1st stage pressure gauge    | 27 2nd stage               |
| 2 Control pannel                             | 15 Refill hoses connection     | 28 3rd stage               |
| 3 ON pushbutton                              | 16 Condensate discharge valves | 29 Monobloc                |
| 4 Stop pushbutton                            | 17 Oil level                   | 30 Oil filler plug         |
| 5 Condensate discharge pushbutton            | 18 Oil discharge valves        | 31 Safety valve            |
| 6 Oil level warning light                    | 19 Purifier filter             | 32 Maintenance valve       |
| 7 Direction of rotation indicator light      | 20 Handles                     | 33 Cooling fan             |
| 8 Hour counter                               | 21 Condensate collection can   | 34 Belt                    |
| 9 Cabinet interior / cooling air temperature | 22 Motor                       | 35 Anti-vibration device   |
| 10 Emergency pushbutton                      | 23 Compressor                  | 36 Oil pump                |
| 11 Automatic shutdown pressure switch        | 24 Air filter                  | 37 Oil filter              |
| 12 3rd stage pressure gauge                  | 25 Condensate separator        | 38 HP condensate separator |
| 13 2nd stage pressure gauge                  | 26 1st stage                   |                            |