

Hand Pump

for small systems up to 56 l (2 cu ft)



Application:

The hand pump is a lightweight portable dehydrator for pressuring small systems up to 210 kPa (30 psig). It can supply up to 3823 l (135 ft³) of dry air under typical ambient conditions of 40% relative humidity and 21°C (70°F) before regeneration is required.

Moisture is removed by passing ambient air through color indicating, silica gel desiccant. When the orange color in the sight glass turns green, it is time to replace the desiccant. Do not use the pump while the desiccant is green.

Installation:

Pump contains a hose 2.2 m (7 ft) in length to reach a gas inlet valve (Schrader type, CommScope Type No. 3017 or 3017-2). The system should also contain a pressure gauge. If one is not available, use hand pump 860G which is equipped with a 0-210 kPa (0-30 psig) gauge and fittings.

Purge the system. Provide a small leak at the opposite end of the system from the gas inlet. Change the volume three times then reseal the system. It takes 80 strokes to purge a 28 l (1 ft³) volume with one air change. To pressurize the same volume use 5.5 strokes per 6.9 kPa (1.0 psig).

Maintenance:

You can extend the life of the desiccant by using the pump under cool conditions. After the desiccant turns green, remove the top hex nut and the plunger assembly. Carefully slide the top collar off the center tube to remove the desiccant. Reactivate the desiccant by heating it to 180°C (350°F) for four hours in an oven.

Return the reactivated desiccant into the hand pump. Do not spill any into the center tube and make sure all threads and gasket areas are free of the desiccant. Return the collar over the center tube and make sure it is properly sealed. Return the plunger and tighten the hex nut.

Consumable Spare Parts

| | |
|------------|----------------|
| Desiccant | 52665-3 |
| Gasket Kit | 860G-KIT-OVRHL |

Characteristics:

| | |
|---------------------|---|
| Square base, | 203 mm (8 in) |
| Housing diameter, | 64 mm (2.5 in dia.) |
| Total height | 660 mm (26 in) |
| Net weight | 19.8 kg (9.0 lb) |
| Shipping Dimensions | 305 mm x 305 mm x 711 mm (12 in W x 12 in D x 28 in H) |
| Shipping weight | 28.6 kg [13.0 lb] |
| Temperature range | +50°C -15°C (122°F to 5°F) |
| Hose length | 2.2 m (7 ft) |
| Interface | Gas inlet valve |



COMMSCOPE®

860G
Hand Pump
for small systems up to
56 l (2 cu ft)

COMMSCOPE®

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