

YOUR SOLUTION

TECHNICAL DATA

| | | 25 | 40 | 55 | 85 | 120 | 175 | 200 | 230 | 340 | 480 | 650 | 850 |
|---------------------|---------------------|----------|------|------|-----|------|-------|-------|-------|-------|-------|-------|------|
| compressed air flow | m ³ /h | 25 | 40 | 55 | 85 | 120 | 175 | 200 | 230 | 340 | 480 | 650 | 850 |
| | m ³ /min | 0,4 | 0,7 | 0,9 | 1,4 | 2 | 2,9 | 3,3 | 3,8 | 5,7 | 8 | 10,8 | 14,2 |
| | SCFM | 14,7 | 23,5 | 32,4 | 50 | 70,6 | 102,9 | 117,6 | 135,3 | 200 | 282,4 | 382,4 | 500 |
| connection | inch | 1/2 | | | | 1 | | | | 1 1/2 | | 2 | |
| power supply | V/n/Hz | 230/1/50 | | | | | | | | | | | |
| absorbed power | kW | 0,23 | 0,4 | | | | 0,64 | | 0,78 | | 0,91 | 1,12 | 1,73 |
| condenser air flow | m ³ /h | 420 | | | | 480 | | | | 1020 | | 1680 | 2400 |
| refrigerant | | R134a | | | | | | R404a | | | | | |
| width | mm | 310 | | | | 315 | 310 | 320 | | | 460 | | |
| depth | mm | 575 | | | | 670 | | | 700 | | | 1020 | |
| height | mm | 535 | | | | 560 | | | 670 | 700 | 885 | | |
| weight | kg | 35 | 38 | 40 | 41 | 42 | 45 | 50 | 84 | 86 | 95 | 117 | 150 |

| | | 1000 | 1300 | 2000 | 2800 | 3600 | 4300 | 5300 | 6600 | 8000 | 10100 | 13000 | 15200 | 19000 | |
|---------------------|---------------------|----------|-------|--------|-----------|-----------|--------|-----------|--------|-----------|--------|------------|--------|---------|--|
| compressed air flow | m ³ /h | 1000 | 1300 | 2000 | 2800 | 3600 | 4300 | 5300 | 6600 | 8000 | 10100 | 13000 | 15200 | 19000 | |
| | m ³ /min | 16,7 | 21,7 | 33,3 | 46,7 | 60 | 71,7 | 88,3 | 110 | 133,3 | 168,3 | 216,7 | 253,3 | 316,7 | |
| | SCFM | 588,2 | 764,7 | 1176,5 | 1647,1 | 2117,6 | 2529,4 | 3117,6 | 3882,4 | 4705,9 | 5941,2 | 7647,1 | 8941,2 | 11176,5 | |
| connection | inch | 2 | | 3 | 3 flanges | 4 flanges | | 6 flanges | | 8 flanges | | 10 flanges | | | |
| power supply | V/n/Hz | 230/1/50 | | | 400/3/50 | | | | | | | | | | |
| absorbed power | kW | 2,02 | 2,38 | 3,16 | 5,04 | | 7,4 | 10,95 | 10,95 | 18 | 18,4 | 27,85 | 27,85 | | |
| condenser air flow | m ³ /h | 2400 | 3960 | 5760 | | 7920 | | 10800 | 21600 | | 25080 | 26760 | 37620 | 37620 | |
| refrigerant | | R404a | | | | | | | | | | | | | |
| width | mm | 460 | 411 | 500 | | 650 | | 700 | 2500 | | | 3100 | | | |
| depth | mm | 1020 | 1030 | 1500 | | 1750 | | 1800 | 1250 | | | 1550 | | | |
| height | mm | 975 | 1030 | 1450 | | 1520 | | 1570 | 2500 | | | 2760 | | | |
| weight | kg | 170 | 196 | 325 | 380 | 468 | 660 | 790 | 1560 | 1700 | 1780 | 1890 | 1960 | 2150 | |

CORRECTION FACTORS

| Service pressure | bar | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------------------|-----|------|------|------|---|------|------|-----|
| | K1 | 0,84 | 0,88 | 0,96 | 1 | 1,04 | 1,06 | 1,1 |

| Cooling temperature | °C | 25 | 30 | 35 | 40 | 45 |
|---------------------|----|----|------|------|------|------|
| | K2 | 1 | 0,95 | 0,76 | 0,53 | 0,38 |

| Air inlet temperature | °C | 35 | 40 | 45 | 50 | 55 |
|-----------------------|----|----|------|------|------|------|
| | K3 | 1 | 0,92 | 0,82 | 0,75 | 0,68 |

| Dewpoint | °C | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----------|----|------|---|------|------|------|-----|------|------|------|
| | K4 | 0,96 | 1 | 1,04 | 1,06 | 1,08 | 1,1 | 1,14 | 1,15 | 1,16 |

Corrected air flow = nominal air flow K1/K2/K3/K4

DHR

COMPRESSED AIR DRYER BY DIRECT EXPANSION REFRIGERATION



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DHR, FROM 25 TO 48 000 M³/H

DESCRIPTION

The compressed air saturate with humidity enters the evaporator/intercooler exchanger. Precooled by the outgoing air, it is cooled down until the requested dew point. The humidity condenses then in droplets which are taken away from the air flow by the integrated separator. The water collected is evacuated by the automatic draining system. The dry and cold air is then warmed up in the intercooler by the incoming air. Dynamic adjustment of the refrigeration capacity is enabled by the hot gas by-pass regulation valve. This guarantees an immediate and constant dew point at any rate. The intercooler/evaporator group has a specific design which allows high performance in small overall dimensions.



Hot gaz by-pass

Thermostatic valve

Copeland Scroll Compressor

Fan

HP/BP pressure switch



TECHNICAL CHARACTERISTICS

- 25 to 48 000 m³/h, max service pressure 13 bar (contact us for higher pressures), low pressure drop < 0,2 bar
- Hot gas by-pass valve and instant dewpoint
- 2 multitubular exchangers with copper beams : air / air and air / freon with high exchange surface to support any air flow variation
- Pressure drop control manometer, fan pressure switch and HP/BP alarms
- Timer drain. Hermetic compressor with ecological R134a and R404a. Anticorrosion casing : anticorrosion coated air condenser.



For OEM, DHR dryer also exists in air compressor integrable version. Please consult us.

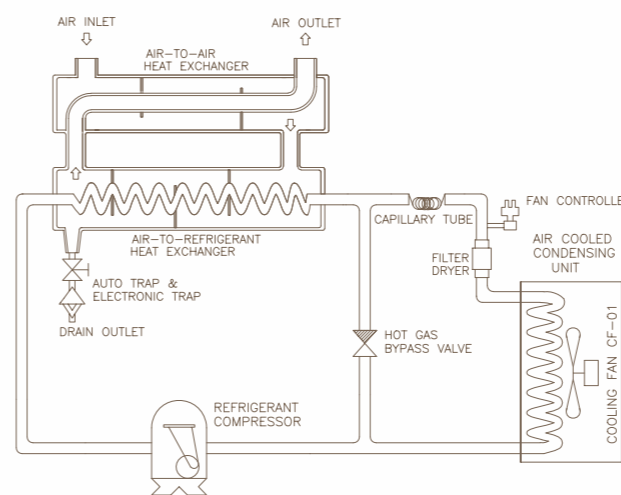
DHR 1920

DHR 7500

DHR 1280

DHR 85

DHR 25 TO 1200



DHR 1700 TO 19 000

