

CHOOSE YOUR STAR...

| MODEL | Air flow with pressure dew point | | | | Nominal absorbed power (kW) | Air connect. | Dimensions (mm) | | | Weight kg |
|---------|----------------------------------|------|---------------------|------|-----------------------------|--------------|-----------------|--------|-------|-----------|
| | 3°C | | 7°C | | | | Width | Height | Depth | |
| | m ³ /min | cfm | m ³ /min | cfm | | | | | | |
| PGN040 | 4 | 141 | 5 | 177 | 0,58 | 1 1/2" | 615 | 791 | 552 | 65 |
| PGN050 | 5 | 177 | 6 | 221 | 0,96 | 1 1/2" | 615 | 791 | 552 | 66 |
| PGN060 | 6 | 212 | 8 | 265 | 0,95 | 1 1/2" | 615 | 791 | 552 | 68 |
| PGN070 | 7 | 247 | 9 | 309 | 0,98 | 1 1/2" | 615 | 791 | 552 | 70 |
| PGN080 | 8 | 283 | 10 | 353 | 1,23 | 1 1/2" | 615 | 791 | 552 | 73 |
| PGN110 | 11 | 389 | 14 | 486 | 1,21 | 2" | 920 | 1015 | 672 | 140 |
| PGN140 | 14 | 495 | 18 | 618 | 1,49 | 2" | 920 | 1015 | 672 | 144 |
| PGN180 | 18 | 636 | 23 | 795 | 1,49 | 2" | 920 | 1015 | 672 | 150 |
| PGN220 | 22 | 777 | 28 | 971 | 2,11 | DN80 | 1010 | 1500 | 1310 | 400 |
| PGN270 | 27 | 954 | 34 | 1192 | 2,76 | DN80 | 1010 | 1500 | 1310 | 420 |
| PGN370 | 37 | 1306 | 46 | 1633 | 3,19 | DN80 | 1010 | 1500 | 1310 | 450 |
| PGN450 | 45 | 1589 | 56 | 1986 | 4,38 | DN100 | 1010 | 1500 | 1310 | 470 |
| PGN600 | 60 | 2119 | 75 | 2649 | 5,63 | DN100 | 1010 | 1500 | 1810 | 550 |
| PGN770 | 77 | 2719 | 96 | 3399 | 8,57 | DN150 | 1010 | 1500 | 1810 | 580 |
| PGN900 | 90 | 3178 | 113 | 3973 | 7,72 | DN150 | 1010 | 1500 | 1810 | 590 |
| PGN1100 | 110 | 3885 | 138 | 4857 | 9,93 | DN150 | 1010 | 1500 | 1810 | 660 |

Performances refer to air-cooled model with air suction of FAD 20°C/1 bar A, and the following operating conditions: air suction 25°C/60% RH, 7 bar g working pressure, pressure dew point as shown above, 25°C cooling air temperature, 35°C compressed air inlet temperature. All indicated data refers to DIN ISO 7183. All models supplied with refrigerant R407C and for operation up to 12 bar g. 50 Hz models 040-080 supplied with 230/1/50 power supply, models 110-1100 with 400/3/50; 60Hz models available with various power supplies. Water-cooled versions available from model 220. Data refers to 50Hz model. For 60Hz model all data remains unchanged except for absorbed power (differs for all models) and air connections (3" M on models 220-370).

Air flow correction factors for differing working conditions

| | | | | | | | | | | |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| A) working pressure bar g correction factor | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | 0,74 | 0,84 | 0,90 | 0,96 | 1 | 1,04 | 1,06 | 1,09 | 1,11 | 1,13 |
| B) compres. air inlet temp. °C correction factor | 30 | 35 | 40 | 45 | 50 | 55 | 60 | | | |
| | 1,20 | 1 | 0,84 | 0,71 | 0,60 | 0,50 | 0,45 | | | |
| D) ambient temperature °C correction factor | 20 | 25 | 30 | 35 | 40 | 45 | 50 | | | |
| | 1,03 | 1 | 0,96 | 0,92 | 0,88 | 0,80 | 0,70 | | | |
| C) pressure dew point °C correction factor (referred to 3°C dew point) | 3 | 5 | 10 | | | | | | | |
| | 1 | 1,14 | 1,35 | | | | | | | |

To obtain the required air flow multiply the air flow by the above correction factors (ie. Air flow x A x B x C x D). PoleStar can operate up to ambient temperatures of 50°C and inlet temperatures of 60°C. The above correction factors are approximative: for a precise selection always refer to the software selection program.



This is to certify that the Quality and Environment Management Systems of domnick hunter hiross S.p.A. have been approved by Lloyd's Register Quality Assurance to the following Quality and Environment Management System Standards: ISO9001:2000 and ISO14001:1996.

Data contained in this publication is to be considered as indicative only. The manufacturer reserves the right to modify data without prior notice.

The Hiross product range: Aftercoolers, Separators, Filters, Refrigeration Dryers, Adsorption Dryers, Condensate Drains, Oil/Water Separators, Water Chillers, Dry Coolers.

domnick hunter hiross SpA

HIROSS

Compressed Air Treatment

domnick hunter hiross S.p.A. - S. Angelo di Piove - Padova - Italy - Tel. +39-0499712201 - Fax +39-0499712236 - www.dh-hiross.com