

Starlette Plus

The small range of refrigeration dryers



Short Discription

The application of high-quality air ensures continuity and reliability of industrial applications, the highest quality standards for finished products and the optimisation of production costs. Parker Hiross offers a range of refrigerated air drying solutions using advanced refrigeration technology. Starlette Plus is Parker Hiross' answer to the specific needs of the industrial user. Starlette Plus safeguards continuous performance and superior efficiency in every industrial compressed air application. It can easily be adapted to suit all working conditions, maintaining reliable dewpoint control and the lowest possible pressure drops and operating costs.

With its state-of-the-art PlusPack heat exchangers (patent pending) and the most compact dimensions of any system in its class, Starlette Plus is the superior choice for any compressed air treatment application.



Product Features:

- Extremely compact
- Low operating costs
- Environmentally friendly
- High operating limits

Philosophy

Parker Hiross specialises in cooling, purification, and separation technologies, where compressed air and gas purity, product quality, technological excellence and global support are paramount. We design and manufacture compressed air treatment products and cooling equipment for many key industries where ease of integration, low cost of ownership and energy saving can make the difference.

Parker Hiross has been supplying industry with high efficiency products with low lifetime costs and reduced CO₂ emissions since 1964. Our philosophy 'to stand out from the crowd' is our credo, encouraging our employees to achieve continuous improvement and satisfy customer expectations.





PlusPack 3-in-1 heat exchangers (patent pending), in solid aluminium with air-to-air freecooler exchanger, evaporator and 'slow flow' demister separator and integrated air connections.



Features:

- Reliable air-tight piston compressors which do not require preheating.
- Simple and secure refrigeration circuits which do not require adjustment during operation and undergo vigorous quality testing in production.
- Large adjustable condenser and fan compartments to guarantee optimum performance even in extreme conditions.
- Security protection in the refrigeration circuit, increasing reliability and safeguarding the air dryer.
- Simple disassembly, with easy access to the internal components for efficient maintenance.
- Drain positioned in a niche, allowing easy access without the need to remove the top panel.

Technical data

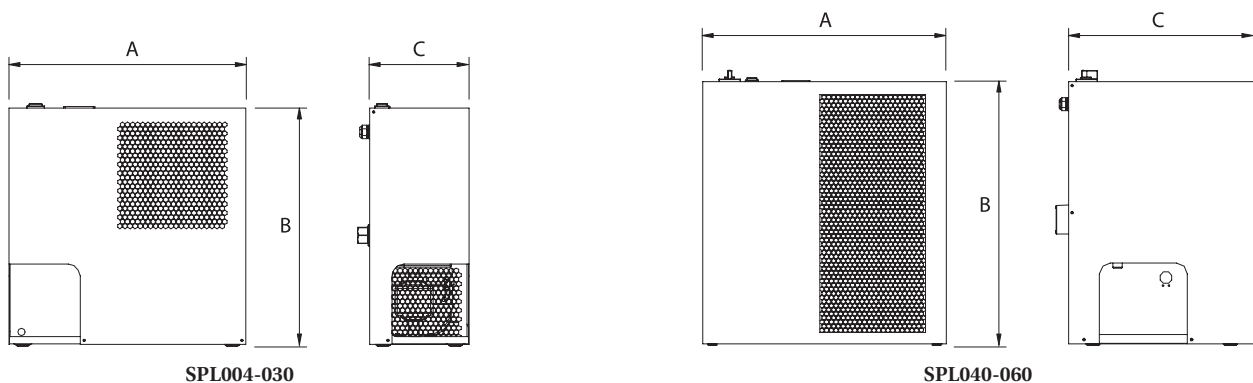
| Model | technical data | | | | dimensions (mm) | | | weight (kg) | Pre filter | Post filter |
|--------|----------------|--------|------------|--------|-----------------|--------|-------|-------------|------------|-------------|
| | air flow | | abs. power | air | width | height | depth | | | |
| | m³/h | m³/min | kW | conec. | A | B | C | | | |
| SPL004 | 24 | 0,4 | 0,13 | 1/2" | 450 | 430 | 210 | 19 | HFN005Q | HFN005P |
| SPL006 | 36 | 0,6 | 0,17 | 1/2" | 450 | 430 | 210 | 19 | HFN010Q | HFN010P |
| SPL009 | 54 | 0,9 | 0,25 | 1/2" | 500 | 505 | 210 | 23,5 | HFN010Q | HFN010P |
| SPL012 | 72 | 1,2 | 0,25 | 1/2" | 500 | 505 | 210 | 23,5 | HFN018Q | HFN018P |
| SPL018 | 108 | 1,8 | 0,49 | 3/4" | 520 | 565 | 225 | 26,5 | HFN022Q | HFN022P |
| SPL024 | 144 | 2,4 | 0,57 | 3/4" | 520 | 565 | 225 | 31 | HFN030Q | HFN030P |
| SPL030 | 180 | 3,0 | 0,78 | 3/4" | 520 | 565 | 225 | 35 | HFN030Q | HFN030P |
| SPL040 | 240 | 4,0 | 0,71 | 1 1/2" | 555 | 600 | 425 | 52 | HFN045Q | HFN045P |
| SPL050 | 300 | 5,0 | 0,85 | 1 1/2" | 555 | 600 | 425 | 58 | HFN062Q | HFN062P |
| SPL060 | 360 | 6,0 | 1,05 | 1 1/2" | 555 | 600 | 425 | 60 | HFN062Q | HFN062P |

Performances refer to air at FAD 20°C / 1 bar A, and at the following working conditions: air suction 25°C / 60%RH, 7 barg working pressure, pressure dew point in accordance with DIN ISO8573-1, 25°C cooling air temperature, 35°C compressed air inlet temperature. All indicated data refers to DIN ISO 7183. All models supplied with refrigerant R134a and for operation up to 16 barg. Starlette Plus can operate up to ambient temperatures of 50°C and inlet temperatures of 65°C.

Air flow correction factors for differing working conditions

| | | | | | | | | | | | | | | | | | |
|---|------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| A) Working pressure correction factors | barg | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | |
| | | 0,73 | 0,83 | 0,9 | 0,95 | 1 | 1,03 | 1,07 | 1,09 | 1,12 | 1,13 | 1,15 | 1,17 | 1,18 | 1,19 | | |
| B) Ambient temperature correction factors | °C | 20 | | 25 | | 30 | | 35 | | 40 | | 45 | | 50 | | | |
| | | 1,05 | | 1 | | 0,94 | | 0,88 | | 0,81 | | 0,75 | | 0,68 | | | |
| C) Air inlet temperature correction factors | °C | 30 | | 35 | | 40 | | 45 | | 50 | | 55 | | 60 | | 65 | |
| | | 1,22 | | 1 | | 0,83 | | 0,69 | | 0,58 | | 0,49 | | 0,46 | | 0,43 | |

To obtain the actual air flow multiply the nominal air flow by the above correction factors (ie. Air flow x A x B x C).
For a precise selection always refer to the software selection program or contact your Parker Hiross partner.



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