

# Starlette Plus

refrigeration drying solutions



domnick hunter hiross SpA

**HIROSS**

Compressed Air Treatment

## WHY STARLETTE PLUS®?

Compressed air is an important provider of energy for industry; what is often overlooked however is the need to provide quality treatment for this air.

Compressed air contains condensate which, when cooled, will turn into water, causing extensive damage to both the compressed air network and the finished product itself. Starlette Plus® refrigeration dryers actively remove this condensate to achieve near perfectly dry compressed air.

The benefits are notable: less system downtime, reduced costs and maintenance, and an improved finished product.

Starlette Plus®, thanks to its PlusPack heat exchanger (patent pending) and the most compact dimensions on the market, will prove a major plus in your factory.



## TOTAL CUSTOMER CARE

Compressed air networks are complex and each application differs from the next; achieving the optimum compressed air treatment solution is not merely a matter of selecting the right components. Total Customer Care ensures a solution designed

by people with specific experience concerning individual customer needs, backed up by over 40 years experience and the extensive range of Hiross products. A solution without compromises.

But Total Customer Care goes further still. We stay close to the user, ensuring the system operates perfectly, and at minimum cost, at all times and for many years to come. And because neither time, nor technology, stands still, we ensure our users continuously receive the very best solutions, allowing them to concentrate on maximizing their business. Welcome to Total Customer Care.



### PLUSPACK HEAT EXCHANGER (patent pending)

The revolutionary PlusPack features a 3-in-1 aluminium design with integral air connections. All models include an air-to-air freecooler, whilst the unique "slowflow" demister ensures perfect dew points whatever the operating conditions.



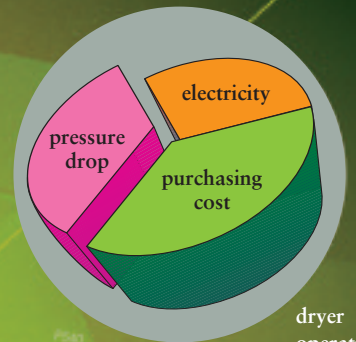
PlusPack heat exchanger

### OPERATES EVERYWHERE

Starlette Plus® is perfectly matched to all compressed air systems and conditions. Air inlet temperatures up to 65°C are permitted, as are ambient temperatures up to 50°C. The maximum operating pressure is 16 barg.

### CLASS LEADING PRESSURE DROPS

Pressure drop accounts for about one third of a dryer's overall costs. Starlette Plus® average pressure drop of less than 0,1 barg is at least half that of competing dryers, resulting in a notable reduction in system costs.



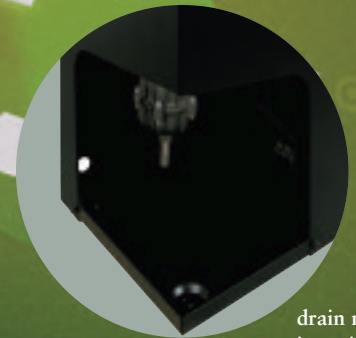
dryer operating costs

### EASY TO INSTALL & OPERATE

Starlette Plus® extremely compact dimensions, with only 2 operating sides, render it very easy to install. It is simple to use and requires no programming. Environmentally friendly refrigerant R134a is used on all models.

### NICHE MOUNTED PLUSDRAINER

PlusDrainer requires no programming and prevents compressed air losses, thus saving energy. Timed and electronic drains are also available. The drain is installed in a niche, allowing easy access without the need to remove any panels.



drain mounted in a niche

### EASY TO MAINTAIN

Removing a single canopy offers access to all components. The simple refrigeration circuit is highly reliable and requires no adjustments. Dedicated preventive maintenance kits ensure optimum long-term dryer operation.

### ASSURED QUALITY & PERFORMANCE

Every dryer undergoes sophisticated testing, including dew point tests with compressed air flow. Multiple helium leak testing, again on every dryer, ensures years of trouble-free operation.



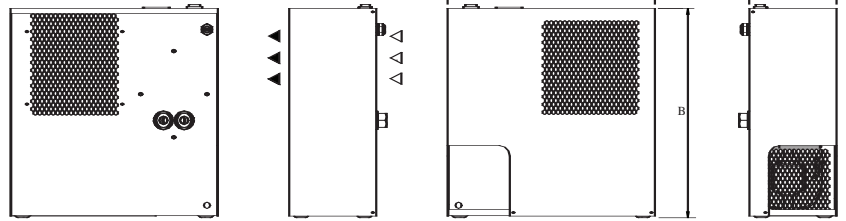
advanced testing procedures



# STARLETTE PLUS®: A BRIGHT CHOICE...

MODEL	Air flow with pressure dew point				Nominal absorbed power (kW)	Air connect.	Dimensions (mm)			Weight (kg)
	3°C		10°C				A	B	C	
	m³/min	cfm	m³/min	cfm						
SPL002	0,2	7	0,3	11	0,12	1/2"	450	430	210	19
SPL004	0,4	14	0,6	21	0,13	1/2"	450	430	210	19
SPL006	0,6	21	0,9	32	0,17	1/2"	450	430	210	19
SPL009	0,9	32	1,3	46	0,25	1/2"	500	505	210	23,5
SPL012	1,2	43	1,7	60	0,25	1/2"	500	505	210	23,5
SPL018	1,8	64	2,6	92	0,49	3/4"	520	565	225	26,5
SPL024	2,4	85	3,5	124	0,57	3/4"	520	565	225	31
SPL030	3,0	106	4,4	155	0,78	3/4"	520	565	225	35

Performances refer to 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 R134a and for operation up to 16 bar g. Data refers to 50Hz models. 50 Hz models with BSP connections.



## Air flow correction factors for differing working conditions

A) working pressure barg	3	4	5	6	7	8	9	10	11	12	13	14	15	16
correction factor	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) inlet temperature °C	30	35	40	45	50	55	60	65						
correction factor	1,22	1	0,83	0,69	0,58	0,49	0,46	0,43						
C) ambient temperature °C	20	25	30	35	40	45	50							
correction factor	1,05	1	0,94	0,88	0,81	0,75	0,68							
D) pressure dew point °C	3	5	7											
correction factor (referred to 3°C dew point)	1	1,12	1,24											

To obtain the required air flow multiply the air flow by the above correction factors (i.e. air flow x A x B x C x D).

Starlette Plus can operate up to ambient temperatures of 50°C and inlet temperatures of 65°C. The above correction factors are approximative; for a precise selection refer to the software selection program or contact your Hiross partner.



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 (Certificate LRC160001) and ISO14001:2004 (Certificate LRC160001/14).

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.



TAHAS Tazyikli Hava Sanayi ve Ticaret A.S.  
I. Karaoglanoglu Cad. No: 25/4  
34418 Seyrantepe, Istanbul Turkey  
Tel: +90 212 284 93 33 Fax: +90 212 282 64 93  
Web Site: [www.tahas.com](http://www.tahas.com) E-Mail: [info@tahas.com](mailto:info@tahas.com)

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