

PNEUDRI MiDAS

A totally clean and dry Compressed Air System (CDA)

The Parker domnick hunter PNEUDRI MiDAS range of desiccant air dryers, offers the user uncompromised performance from a dedicated "point of use" Clean Dry Air system. It is easy to install and will transform an ordinary process into a highly reliable and efficient production operation.

Compressed air purification equipment must deliver uncompromising performance and reliability whilst providing the right balance of air quality with the lowest cost of operation. Many manufacturers offer products for the filtration and purification of contaminated compressed air, which are often selected only upon their initial purchase cost, with little or no regard for the air quality they provide, the cost of operation throughout their life or indeed their environmental impact. When purchasing purification equipment, delivered air quality, the overall cost of ownership and the equipment's environmental impact must always be considered.



The Parker domnick hunter Design Philosophy

Parker domnick hunter has been supplying industry with high efficiency filtration and purification products since 1963. Our philosophy 'Designed for Air Quality & Energy Efficiency' ensures products that not only provide the user with clean, high quality compressed air, but also with low lifetime costs and reduced CO_2 emissions.





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Benefits:

- PNEUDRI dryers provide efficient removal of water vapour from compressed air
- Delivered air quality is in accordance with ISO 8573-1:2001, the international standard for compressed air quality
- Improves production efficiency and reduces maintenance costs and downtime
- Pressure Dewpoint's of -70°C & -40°C (ISO 8573-1 :2001 Classes 1 & 2) are available
- Unlike refrigeration dryers, the -40°C & -70°C pressure dewpoint's offered by PNEUDRI not only eliminates corrosion, it also inhibits the growth of micro-organisms
- Ideal for both compressor room and point
 of use applications
- Low noise level <75 db (A)

- Compared to traditional twin tower dryer designs, PNEUDRI's unique modular construction and snowstorm filling of the adsorbent desiccant material provides:-
 - Consistent dewpoint performance
 - A smaller, more compact and lightweight dryer
 - Simple to install and easy to maintain
 - Fully corrosion protected inside and out
 Approvals to International Standards
 - (PED, CSA/UL/CRN)
 Eliminates the need for costly annual
 - Eliminates the need for costly annual pressure vessel inspections
 - 10 year guarantee on pressure envelope





ENGINEERING YOUR SUCCESS.



Dryer Performance

Dryer Models	Dewpoin	t (Standard)	ISO 8573-1:2001	Dewpoin	t (Option 1)	ISO 8573-1:2001 Classification	
	°C	۴	Classification (standard)	°C	°F	(Option 1)	
DAS	-40	-40	Class 2	-70	-100	Class 1	

Product Selection

Stated flows are for operation at 7 bar g (100 psi g) with reference to 20°C, 1 bar a, 0% relative water vapour pressure. For flows at other pressures, apply the correction factors shown.

Model	Pipe Size	L/S	m³/min	m³/hr	cfm
DAS1	G %	1	0.09	5.1	3
DAS2	G %	2	0.14	8.5	5
DAS3	G %	4	0.23	13.6	8
DAS4	G %	5	0.28	17.0	10
DAS5	G %	6	0.37	22.1	13
DAS6	G %	7	0.43	25.5	15
DAS7	G %	9	0.57	34.0	20

Correction Factor

Temperature Correction Factor CFT								
Maximum	°C	25	30	35	40	45	50	
Inlet	°F	77	86	95	104	113	122	
remperature	CFT	1.00	1.00	1.00	1.04	1.14	1.37	

Pressure Correction Factor CFP										
	bar g	4	5	6	7	8	9	10	11	12
Minimum Inlet Pressure	psi g	58	73	87	102	116	131	145	160	174
	CFP	1.60	1.33	1.14	1.00	1.03	0.93	0.85	0.78	0.71

Dewpoint Correction Factor CFD						
	PDP °C	-40	-70			
Required Dewpoint	PDP °F	-40	-100			
	CFD	1.00	1.43			

Dryer Selection

To correctly select a dryer model, the flow rate of the dryer must be adjusted for the minimum operating pressure and, maximum operational temperature of the system. If the dewpoint required is different to the standard dewpoint of the dryer then the flow rate must also be adjusted for the required outlet dewpoint.

- 1. Obtain the minimum operating pressure, maximum inlet temperature and maximum compressed air flow rate at the inlet of the dryer. Obtain the outlet dewpoint required.
- 2. Select correction factor for maximum inlet temperature from the CFT Table (always round up e.g. for 37°C use 40°C correction factor)
- 3. Select correction factor for minimum inlet pressure from the CFP table (always round down e.g. for 5.3 bar use 5 bar correction factor)
- 4. Select correction factor for required outlet dewpoint from the CFD table
- 5. Calculate minimum drying capacity
 - Minimum Drying Capacity = Compressed Air Flow x CFT x CFP x CFD
- 6. Using the minimum drying capacity, select a dryer model from the flow rate tables above (dryer selected must have a flow rate equal to or greater than the minimum drying capacity)

If the minimum drying capacity exceeds the maximum values of the models shown within the tables, please contact Parker domnick hunter for advice regarding larger multi-banked dryers.

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Technical Data

Dryer Models	Min Operating r Pressure els		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature	
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F
DAS	4	58	12	175	2	35	50	122	55	131

Dryer Models	Electrical Supply	Electrical Supply		Noise Level	Electronic	Function	
	(Standard)	(Optional)	Thread Connection	(average)	Controller	Power On	Service
		Iderance ± 10 /6		dB(A)	Options	Indication	Indication
DAS	230 / 1ph / 50Hz	115 / 1ph / 60Hz	BSPP or NPT	<75	DAS	•	•

Weights and Dimensions

			Woight						
Model	Pipe Size	Pipe Size Height		t (H) Width (W)		Depth (D)		moight	
		mm	ins	mm	ins	mm	ins	Kg	lbs
DAS1	G¾	422	16.6	289	11.4	149	5.9	11	24.2
DAS2	G¾	500	19.7	289	11.4	149	5.9	13	28.7
DAS3	G¾	616	24.2	289	11.4	149	5.9	16	35.3
DAS4	G¾	692	27.2	289	11.4	149	5.9	18	39.7
DAS5	G¾	847	33.3	289	11.4	149	5.9	20	44.1
DAS6	G³⁄8	906	35.7	289	11.4	149	5.9	23	50.7
DAS7	G³⁄8	1098	43.2	289	11.4	149	5.9	28	61.7



Maintenance kits

Model	Maintenance Kit
DAS 1	DASMK1
DAS 2	DASMK2
DAS 3	DASMK3
DAS 4	DASMK4
DAS 5	DASMK5
DAS 6	DASMK6
DAS 7	DASMK7

Accessories

Description	Kit
Fixed Wall Mounting Bracket	DASMB1
45° Tilt Wall Mounting Bracket	DASMB2
Purge Economy Gland Kit	608203185
Volt Free Relay Kit	608203186



Notes

1. It is recommended that an AO pre-filter should be used to protect the Integral Grade AA filter.

2. For hazardous areas, fully pneumatic Mini and Midi dryers are available.