Parker Zander

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ENGINEERING YOUR SUCCESS.

COMPRESSED AIR TREATMENT

REDEFINED

CDAS HL
CLEAN DRY AIR SYSTEM

Parker Zander Clean Dry Air System. Innovative engineering and technology.

Combining sophisticated OIL-X filtration technology with an optimised drying system, the CDAS is designed to deliver consistent high performance over an extended period. Air quality is third party validated to ISO 7183 and ISO 8573-1, so you can be completely confident of your compressed air quality.

ENERGY SAVING TECHNOLOGY

Standard on all units, it automatically adapts dryer operation to the ambient inlet conditions and compressed air demand, resulting in reduced maintenance and significantly lower energy costs - often with savings of up to 85%.

- 'Power on' and fault indication
- Dryer and filter service indicators
- Dewpoint display
- Fault relay: power, dewpoint alarm and sensor failure
- 4-20mA dewpoint re-transmission

HMI display screen
Large screen display offering a wealth of clear, useable, real-time information.

High strength desiccant
Cartridges are snowstorm filled with high strength desiccant that has a 5-year lifetime, providing consistent drying, re-generation and dewpoint.

Pre-mounted filters
New series OIL-X filters engineered to provide validated ISO 8573-1 performance.

Threaded top end-cap
Threaded end-cap enables the straightforward replacement of the desiccant cartridge.

Purge setting
The purge air can be set at minimum operating pressure easily, without the need for specialist tools.

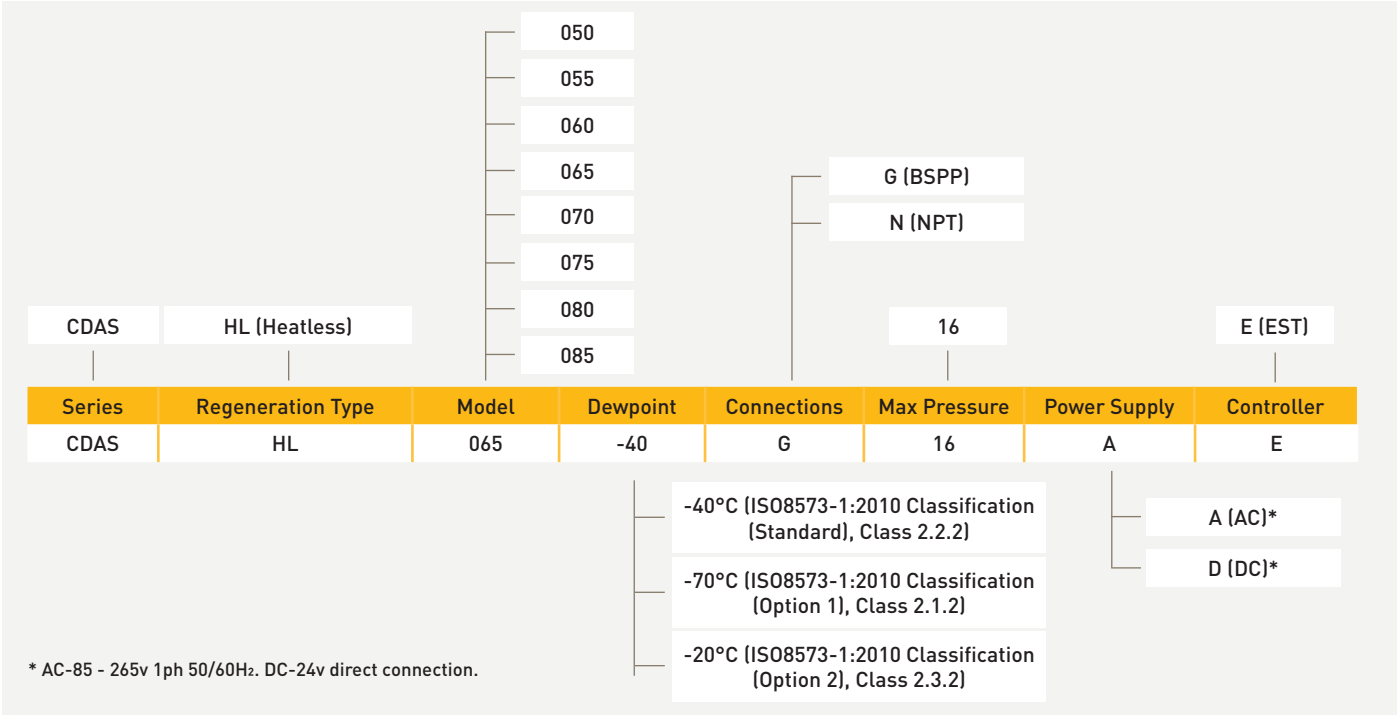
Corrosion protected column
With a 10-year guarantee, to ensure a long operational life.

Full bore internal flow paths
Featuring optimised flow management for reduced pressure drop.

Full bore cylinder valve system
Low pressure loss valves provide full air flow and minimal back pressure, whilst robust cylinders extend service intervals.

Base plate
Designed for pallet trucks, allowing for easy, time-saving installation.

Product Selection



* AC-85 - 265v 1ph 50/60Hz. DC-24v direct connection.

Flow Rates

Stated flows are for operation at 7 bar (g) (102 psi g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure.

Model	Port Connection " BSPP or NPT	Inlet Flow Rate			
		L/s	m³/min	m³/hr	cfm
CDAS HL 50	½"	15	0.92	55	32
CDAS HL 55	½"	19	1.17	70	41
CDAS HL 60	½"	25	1.50	90	53
CDAS HL 65	½"	31	1.84	110	65
CDAS HL 70	¾"	42	2.51	150	88
CDAS HL 75	1"	51	3.09	185	109
CDAS HL 80	1"	61	3.67	220	129
CDAS HL 85	1 ½"	83	5.01	300	177

Product Selection & Correction Factors

For correct operation, compressed air dryers must be sized using for the minimum pressure, maximum temperature and maximum flow rate of the installation. To select a dryer, first calculate the MDC (Minimum Drying Capacity) using the formula below then select a dryer from the flow rate table above with a flow rate equal to or above the MDC. **Minimum Drying Capacity = System Flow x CFIT x CFAT x CFP x CFD**

CFIT - Correction Factor Maximum Inlet Temperature

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

CFAT - Correction Factor Maximum Ambient Temperature

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

CFP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor		1.60	1.33	1.14	1.00	0.89	0.80	0.73	0.67	0.62	0.57	0.53	0.50	0.47

CFD - Correction Factor Dewpoint

Maximum Inlet Temperature	°C	-20	-40	-70
	°F	-4	-40	-100
Correction Factor		0.91	1	2.00

Technical Data

Dryer Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Filter Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				dB(A)
CDAS HL 50-85	4	58	16	232	5	41	50	122	55	131	85 - 265V 1ph 50/60Hz	24V DC	BSPP or NPT	<75

OIL-X Pre-Mounted Filters

Filtration Position	Inlet	Inlet	Outlet
Filtration Grade	Grade AO	Grade AA	Grade AO
Filtration Type	Coalescing	Coalescing	Dry Particulate
Particle Removal (inc water & oil aerosols)	Down to 1 micron	Down to 0.01 micron	Down to 1 micron
Maximum Remaining Oil Content at 21°C	0.5 mg/m^3 (0.5 ppm(w))	0.01 mg/m^3 (0.01 ppm(w))	N/A
Filtration Efficiency	99.925%	99.9999%	99.925%

Weight & Dimensions

Model	Port Connection Inlet / Outlet	Dimensions						Weight		Inlet		Outlet
		Height (H)		Width (W)		Depth (D)				General Purpose Coalescing Filter	High Efficiency Coalescing Filter	General Purpose Dry Particulate Filter
		mm	ins	mm	ins	mm	ins	kg	lbs			
CDAS HL 50	½"	1133	45	559	22	490	19	76	168	AOP015C	AAP015C	AOP015C
CDAS HL 55	½"	1313	52	559	22	490	19	84	185	AOP015C	AAP015C	AOP015C
CDAS HL 60	½"	1510	59	559	22	490	19	93	205	AOP020C	AAP020C	AOP020C
CDAS HL 65	½"	1660	65	559	22	490	19	100	220	AOP020C	AAP020C	AOP020C
CDAS HL 70	¾"	2020	80	559	22	490	19	120	265	AOP025D	AAP025D	AOP025D
CDAS HL 75	1"	1595	63	559	22	682	27	165	364	AOP025E	AAP025E	AOP025E
CDAS HL 80	1"	1745	69	559	22	682	27	180	397	AOP025E	AAP025E	AOP025E
CDAS HL 85	1 ½"	2105	83	559	22	682	27	210	463	AOP030G	AAP030G	AOP030G

Pressure Vessel Approvals

Developed and Manufactured to DIN EN ISO 9001, DIN EN ISO 14001 and IP65.
Pressure vessel approved for fluid group 2 in accordance with the Pressure Equipment Directive 97/23/EC and AS1210.
Approval to ASME VIII Div. 1 not required. For use with Compressed Air and Gaseous Nitrogen.

For more information please contact your local sales office or visit **www.parker.com/gsfe**