

ED2000 Series

Condensate Drains



Removal of condensate from separation, filtration and dryer packages is simply a case of using a drain valve, however most are purchased on their initial price only, with little thought to their maintenance and running costs. The hidden cost with the most common drain types, lies within their operation, that is they discharge expensive compressed air.

Parker domnick hunter ED2000 Series level sensing drains detect and discharge only when condensate is present. With no mechanical sensor parts and a sensing system that works with all types of compressed air condensates, including aggressive oil-free, the intelligent operation always ensures no loss of valuable compressed air.

ED2000 Series condensate drains are the reliable, easy to install, cost effective solution for condensate removal, with a model to suit every system or application.



False economy?

Consider the compressed air and energy losses associated with the common types of drain. What appears to be a good purchase could actually turn out to be the most expensive option. For example, a system using a single timed drain, could lose approximately 0.062m³/min (2.18 cfm) of air.

Over a full year of continuous operation that equates to approximately 32,498m³ (1,142,669 ft³) of air lost!

In energy terms that single drain would use 3,581 KW (4,804 hp) of energy per year!

Now multiply by every drain of that type in the system.

Contact Information:

Parker Hannifin Ltd
domnick hunter Industrial division
Dukesway, Team Valley Trading Estate
Gateshead, Tyne and Wear
England NE11 0PZ

Tel: +44 (0)191 402 9000
Fax: +44 (0)191 482 6296
Email: dhindsales@parker.com
www.domnickhunter.com

Benefits:

- **Saves valuable compressed air**
 - Saving Air – Saves Energy – Saves Money
- **Removes liquid condensate efficiently**
 - Eliminates the risk of condensate carryover
- **Protects downstream equipment and processes from condensate damage**
- **Simple to install**
 - multiple inlet design offers flexibility during installation
- **Helps protect the environment by using less electrical energy**
 - Helps reduce the release of CO₂ into the environment



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Technical Data

Model	Voltage AC	Frequency	Voltage Free Contacts	Connections		Operating Pressure		Operating Temperature	
				Inlet	Outlet	Max	Min	Max	Min
ED2100-230	230V	50/60Hz	No	1 x G ½	8mm G ⅝	16 bar g	2 bar g	66°C	2°C
ED2100-115	115V			1 x G ¼	l/d hose	232 psi g	29 psi g	150°F	36°F
ED2100-230AL	230V	50/60Hz	Yes	2 x G ½	8mm G ⅝	16 bar g	2 bar g	66°C	2°C
ED2100-115AL	115V				l/d hose	232 psi g	29 psi g	150°F	36°F
ED2200-230	230V	50/60Hz	No	1 x G ¾	8mm G ⅝	14 bar g	2 bar g	66°C	2°C
ED2200-115	115V			2 x G ½	l/d hose	204 psi g	29 psi g	150°F	36°F
ED2200-230AL	230V	50/60Hz	Yes	1 x G ¾	8mm G ⅝	14 bar g	2 bar g	66°C	2°C
ED2200-115AL	115V			2 x G ½	l/d hose	204 psi g	29 psi g	150°F	36°F
ED2300-230	230V	50/60Hz	Yes	1 x G ¾	G ¾	16 bar g	2 bar g	66°C	2°C
ED2300-115	115V			2 x G ½	l/d hose	232 psi g	29 psi g	150°F	36°F
ED2400-230	230V	50/60Hz	Yes	1 x G ¾	G ¾	16 bar g	2 bar g	66°C	2°C
ED2400-115	115V			2 x G ½	l/d hose	232 psi g	29 psi g	150°F	36°F
ED2500-230	230V	50/60Hz	Yes	1 x G ¾	G ¾	16 bar g	2 bar g	66°C	2°C
ED2500-115	115V			2 x G ½	l/d hose	232 psi g	29 psi g	150°F	36°F

Product Selection

Climate Condition 1

Ambient temperature at compressor inlet	25°C (77°F)	Model	Compressor/Air Receiver Flow Rates				Model	Refrigeration Dryer Flow Rates			
			L/s	m³/min	m³/hr	cfm		L/s	m³/min	m³/hr	cfm
Relative humidity at compressor inlet	65% RH	ED2100	87	5.25	315	185	ED2100	200	12	719	423
Compressor discharge temperature	35°C (95°F)	ED2200	175	10.5	629	370	ED2200	399	24	1438	846
System pressure	7 bar g (100 psi g)	ED2300	500	30	1802	1060	ED2300	1144	68.6	4118	2424
Refrigeration dryer dewpoint	2°C (36°F)	ED2400	2167	130	7803	4592	ED2400	2916	297.2	17835	10497
Shift Pattern	24 hour use	ED2500	2834	170	10201	6004	ED2500	3812	388.6	23317	13724

Climate Condition 2

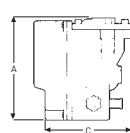
Ambient temperature at compressor inlet	35°C (95°F)	Model	Compressor/Air Receiver Flow Rates				Model	Refrigeration Dryer Flow Rates			
			L/s	m³/min	m³/hr	cfm		L/s	m³/min	m³/hr	cfm
Relative humidity at compressor inlet	85% RH	ED2100	32	1.9	116	68	ED2100	110	6.6	397	233
Compressor discharge temperature	45°C (113°F)	ED2200	64	3.9	232	136	ED2200	220	13.2	793	467
System pressure	7 bar g (100 psi g)	ED2300	184	11.1	663	390	ED2300	631	37.8	2271	1337
Refrigeration dryer dewpoint	2°C (36°F)	ED2400	798	47.9	2872	1690	ED2400	2732	163.9	9835	5789
Shift Pattern	24 hour use	ED2500	1043	62.6	3755	2210	ED2500	3572	214.3	12858	7568

The above selection tables show the maximum air flow rates for each of the ED2000 Series drains, when used at different points in a compressed air system and operating in the climatic conditions shown. The refrigeration dryer flow rates, OIL-Xplus filter and WS Water Separator selections assume that adequate condensate removal has been provided at the compressor intercooler/aftercooler and the air receiver. Shift pattern assumes 24 hour use, should a system be used for 12 hours/day, 5 days a week or less, please contact your local Parker domnick hunter approved distributor/agent for correct sizing.

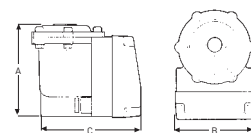
Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	ins	mm	ins	mm	ins	kg	lbs
ED2100	118.0	4.6	75.13	2.9	116.7	4.6	0.8	1.76
ED2200	114.0	4.5	99.0	3.9	138.0	5.4	0.9	1.98
ED2300	142.0	5.6	186.3	7.3	141.6	5.5	3.2	7.0
ED2400	142.0	5.6	258.8	10.2	141.6	5.5	4.0	8.8
ED2500	142.0	5.6	371.8	14.6	141.6	5.5	4.7	10.3

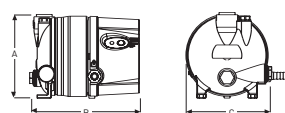
Model ED2100



Model ED2200



Models ED2300/2400/2500



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TECNI-AR Comércio e Manutenção Ltda - Tel: 31-3362-2400 - Fax - 31-3361-1625

www.tecni-ar.com.br - e-mail: tecni-ar@tecni-ar.com.br