

Zero Air Loss Condensate Drains

External Float Drains (16 bar / 50 bar)

Electronic Level Sensing Drains (16 bar / 50 bar)



Condensate Removal

Removal of compressor condensate from separation, filtration and refrigeration dryers 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 type, lies within their operation, that is they discharge expensive compressed air.

Parker Zero Air Loss Level Sensing Drains

Parker level sensing drains are totally zero air loss, discharging only compressor condensate and not valuable compressed air.

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



Advantages

- Saves valuable compressed air
- Saving Air – Saves Energy – Saves Money
- Removes liquid condensate efficiently - Eliminates the risk of condensate carryover past purification equipment
- 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

Drain Type	Drain Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature	
		bar g	psi g	bar g	psi g	°C	°F	°C	°F
External Float	HDF 120 ~ 220	1	15	16	232	2	35	60	140
Electronic Level Sensing	ED3002 ~ ED3100	1	15	16	232	2	35	60	140
Electronic Level Sensing	ED4100	16	232	50	725	2	35	50	122

Flow Rates - Zero Air Loss External Float Drains

Model	Pipe Size		Compressed Air Flow Rate				Electrical Supply
	Inlet	Outlet	L/S	m³/min	m³/hr	cfm	
HDF120-A	1/2"	1/2"	1500	90	5400	3178	-
HDF180-A	1"	1/2"	1667	100	6000	3532	-
HDF220-A	1"	1/2"	4167	251	15000	8829	-

External float drain (with built-in air vent)

HDF120	1/2"	1/2"	1500	90	5400	3178	-
HDF180	1"	1/2"	1667	100	6000	3532	-
HDF220	1"	1/2"	4167	251	15000	8829	-

External float drain (without air vent)

HDF220BE	1"	1/2"	1806	109	6500	3826	-
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External float drains BioEnergy

Flow Rates - Zero Air Loss Electronic Level Sensing Drains

Model	Pipe Size		Compressed Air Flow Rate (Aftercooler / Air Receiver)				Compressed Air Flow Rate (Refrigeration Dryer)				Compressed Air Flow Rate (Filter)				Electrical Supply
	Inlet	Outlet	L/S	m³/min	m³/hr	cfm	L/S	m³/min	m³/hr	cfm	L/S	m³/min	m³/hr	cfm	
ED3002-G230	1 x G 1/2	G 3/8	-	-	-	-	-	-	-	-	200	12	720	424	230/1/50-60
ED3004-G230	1 x G 1/2	G 3/8	67	4	240	141	133	8	480	283	667	40	2400	1413	230/1/50-60
ED3007-G230	2 x G 1/2	G 3/8	117	7	420	247	233	14	840	494	1167	70	4200	2472	230/1/50-60
ED3030-G230	2 x G 1/2	G 3/8	500	30	1800	1059	1000	60	3600	2119	5000	301	18000	10595	230/1/50-60
ED3100-G230	2 x G 1/2	G 3/8	1667	100	6000	3532	3334	200	12000	7063	16668	1002	60000	35316	230/1/50-60

230V/1PH/50-60Hz - 16 bar g (232 psi g)

ED3007-G24D	2 x G 1/2	G 3/8	117	7	420	247	233	14	840	494	1167	70	4200	2472	24V DC
ED3030-G24D	2 x G 1/2	G 3/8	500	30	1800	1059	1000	60	3600	2119	5000	301	18000	10595	24V DC
ED3100-G24D	2 x G 1/2	G 3/8	1667	100	6000	3532	3334	200	12000	7063	16668	1002	60000	35316	24V DC

24V DC - 16 bar g (232 psi g)

ED4100/50-G230	G 1/2	G 1/4	1667	100	6000	3532	3334	200	12000	7063	16668	1002	60000	35316	230/1/50-60
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230V/1PH/50-60Hz - 50 bar g (725 psi g)

ED4100/50-G24D	G 1/2	G 1/4	1667	100	6000	3532	3334	200	12000	7063	16668	1002	60000	35316	24V DC
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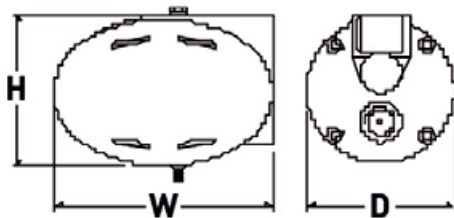
24V DC - 50 bar g (725 psi g)

Stated flows are for operation at max operating pressure shown above, ambient air 25°C (77°F) / 60% RH, compressor discharge temperature 35°C (95°F), refrigeration dryer pressure dewpoint +3°C, with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. . Refrigeration dryer and filter flow rates assume adequate condensate drainage upstream.

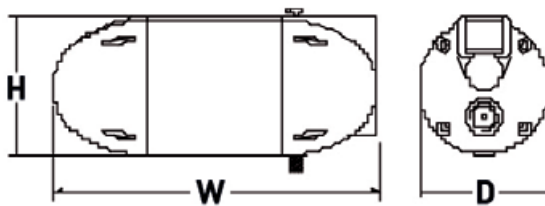
Weight & Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	ins	mm	ins	mm	ins	kg	lbs
HDF120	111	4.4	156	6.1	108	4.3	0.9	2.0
HDF180	111	4.4	156	6.1	108	4.3	0.9	2.0
HDF220	111	4.4	266	10.5	108	4.3	1.9	4.2
HDF220BE	111	4.4	266	10.5	108	4.3	1.9	4.2
ED3002	146	5.7	110	4.3	67	2.6	0.5	1.1
ED3004	139	5.5	101	4.0	67	2.6	0.6	1.3
ED3007	164	6.5	122	4.8	67	2.6	1	2.2
ED3030	164	6.5	137	5.4	67	2.6	1	2.2
ED3100	164	6.5	197	7.8	67	2.6	2	4.4
ED4100	115	4.5	178	7.0	87	3.4	1.9	4.2

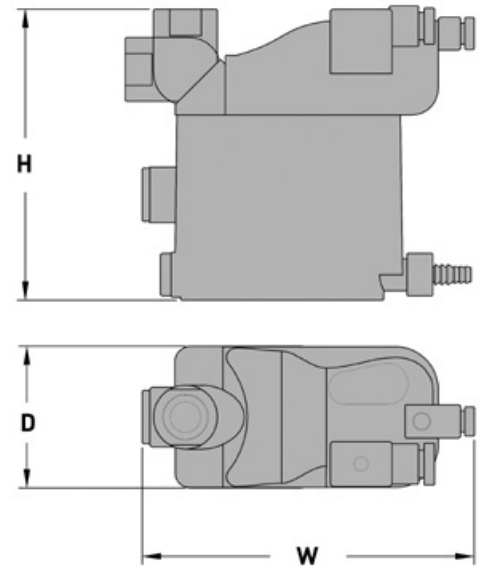
HDF 120 ~ 180



HDF 220



ED 3002 ~ 4100



Quality Assurance / IP Rating / Pressure Vessel Approvals

Development / Manufacture	ISO 9001 / ISO 14001
Ingress Protection Rating	Not Applicable
EU	Pressure vessel approved for fluid group 2 in accordance with the Pressure Equipment Directive 2014/68/EU
USA	Approval to ASME VIII Div. 1 not required
AUS	Approval to AS1210 not required
GUS	TR (formerly GOST-R)

For use with Compressed Air Only

Parker Worldwide

Europe, Middle East, Africa

AE – United Arab Emirates,
Dubai

Tel: +971 4 8127100
parker.me@parker.com

AT – Austria, St. Florian

Tel: +43 (0)7224 66201
parker.austria@parker.com

AZ – Azerbaijan, Baku

Tel: +994 50 2233 458
parker.azerbaijan@parker.com

BE/NL/LU – Benelux,

Hendrik Ido Ambacht
Tel: +31 (0)541 585 000
parker.nl@parker.com

BG – Bulgaria, Sofia

Tel: +359 2 980 1344
parker.bulgaria@parker.com

BY – Belarus, Minsk

Tel: +48 (0)22 573 24 00
parker.poland@parker.com

CH – Switzerland, Etoy

Tel: +41 (0)21 821 87 00
parker.switzerland@parker.com

CZ – Czech Republic, Klecany

Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst

Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup

Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid

Tel: +34 902 330 001
parker.spain@parker.com

FI – Finland, Vantaa

Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve

Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Piraeus

Tel: +30 210 933 6450
parker.greece@parker.com

HU – Hungary, Budaörs

Tel: +36 23 885 470
parker.hungary@parker.com

IE – Ireland, Dublin

Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IL – Israel

Tel: +39 02 45 19 21
parker.israel@parker.com

IT – Italy, Corsico (MI)

Tel: +39 02 45 19 21
parker.italy@parker.com

KZ – Kazakhstan, Almaty

Tel: +7 7273 561 000
parker.easteurope@parker.com

NO – Norway, Asker

Tel: +47 66 75 34 00
parker.norway@parker.com

PL – Poland, Warsaw

Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal

Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest

Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow

Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga

Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SK – Slovakia, Banská Bystrica

Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto

Tel: +386 7 337 6650
parker.slovenia@parker.com

TR – Turkey, Istanbul

Tel: +90 216 4997081
parker.turkey@parker.com

UA – Ukraine, Kiev

Tel: +48 (0)22 573 24 00
parker.poland@parker.com

UK – United Kingdom, Warwick

Tel: +44 (0)1926 317 878
parker.uk@parker.com

ZA – South Africa, Kempton Park

Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

North America

CA – Canada, Milton, Ontario

Tel: +1 905 693 3000

US – USA, Cleveland

Tel: +1 216 896 3000

Asia Pacific

AU – Australia, Castle Hill

Tel: +61 (0)2-9634 7777

CN – China, Shanghai

Tel: +86 21 2899 5000

HK – Hong Kong

Tel: +852 2428 8008

IN – India, Mumbai

Tel: +91 22 6513 7081-85

JP – Japan, Tokyo

Tel: +81 (0)3 6408 3901

KR – South Korea, Seoul

Tel: +82 2 559 0400

MY – Malaysia, Shah Alam

Tel: +60 3 7849 0800

NZ – New Zealand, Mt Wellington

Tel: +64 9 574 1744

SG – Singapore

Tel: +65 6887 6300

TH – Thailand, Bangkok

Tel: +662 186 7000

TW – Taiwan, Taipei

Tel: +886 2 2298 8987

South America

AR – Argentina, Buenos Aires

Tel: +54 3327 44 4129

BR – Brazil, Sao Jose dos Campos

Tel: +55 800 727 5374

CL – Chile, Santiago

Tel: +56 2 623 1216

MX – Mexico, Toluca

Tel: +52 72 2275 4200

EMEA Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

US Product Information Centre

Toll-free number: 1-800-27 27 537

www.parker.com/gsf

