

Client	Impexron GmbH	Date	15.04.2019	Rev00
Fabric No.	833311 / / 001 + 002	Piece	2	
Order No. / Position	833311-0010	Client details		
Article No.	50049948			
Name	Ex-Flanged Heater	Type	DHG11B01GG/M-1-T3	

1 Degree of Protection IEC/EN 60529		IP 66			
2 Ex Marking and Type of Protection					
IEC/EN 60079		(Ex) II 2G Ex db eb IIC T3			
IEC/EN 60079-31					
EC Type Examination Certificate IECEx Certificate		IBExU 15 ATEX 1019 X			
EU Declaration of Conformity		ELM 15-006			
3 Electrical data and connection					
Power groups	E1	Complete	Group 1	Group 2	Group 3
Rated power		1,0 kW			
Rated current		1,2 A			
Back up fuse		10 A			
Rated voltage		480 V 3/PE 50/60 Hz			
Specific surface load		0,38 W/cm ²			
Control circuit temperature monitoring		max. 10 A; 230 V 1/N/PE 50/60 Hz			
Control circuit additional monitoring devices		----			
Anti condensation heater	E2	----			
Connection diagramm		16-1461-40			
Connection cross section power circuit		6/4 mm ²			
Connection cross section control circuit		max. 6/4 mm ²			
Cable entry power circuit / material		1x M25x1,5; for cable-ø 7...17 mm / PA		tightening torque: 2,0 Nm	
Cable entry power circuit / material		----			
Cable entry control circuit / material		1x M25x1,5; for cable-ø 7...17 mm / PA		tightening torque: 2,0 Nm	
Cable entry anti condensation heater / material		----			
4 Protection system					
Temperature monitoring	B1	TL = T3 respectively max. 160 °C - effective on heating element surface			
Isolation resp. residual current device		min. 50 Ω per voltage resp. max. 100 mA			
Flow monitoring device	B3	not necessary			
Additional monitoring devices or sensors					
Temperature monitor, regulators	B2	TR = 0...150 °C - effective on heating element surface			
Temperature monitor, regulators	B4	----			
5 Dimensions					
Dimension sheet / drawing		HK2D			
Installation length L		465 mm			
Unheated length Lu		30 mm			
Temperature reduct. length Lt		----			
Heating bundle diameter		120 mm			
Distance of sheets		110 mm			
Flange		FS 160: outside-ø 160 mm / thickness = 10 mm / 4 holes-ø 11,5 mm on bolt circle-ø 160 mm			
6 Material & Surface					
Heating elements		1.4541	metallic bright		
Cartridge pipe		----			
Flange		C-Steel	varnished with	Hammerschlag	
Connection enclosure		Cast iron	varnished with	Hammerschlag	
7 Operation data					
Medium / flow rate		Air, directly heated	/ ----		
Operating pressure		atm.			
Operating temperature		ca. 40 °C			
Ambient temperature / max. housing temperature		-30 ... +40 °C / 60 °C			
Mounting position		in aggregate, tank or container; Heater horizontal; cable glands from left, bottom and right hand side; H 90/180/270, V 90			
8 Design data					
Design code		AD 2000			
Allowable operating pressure		0,5 bar g			
Allowable temperature min. / max.		----			
Fluid group / diagramm		----			
Category / module		----			
Inspection / certificate / report		Pressure test / ----	/ K-833311-0010		
9 Documentation					
Language		german	/	english	/ ----
Operation manual		DH...; EH...			
10 Remarks		Engine condensation heater Replacement for fab.-no.:5178/1+2 // year of build 2000			
11 Internal remarks		Test pressure: 5 bar g			
Heating elements: pieces; shape; wiring; type		6 DH; R2Y; NR 190V 10G / 460W / 230V			
Solder / welding filler / heating elements diameter		Fontargen AF 314 D / 1.5424 / 8,5 mm			
In charge / Project team		Mr. Jagusevski	Mr. Drögemüller		