

# CERTIFICATE OF PLANT DESIGN REGISTRATION

Work Health & Safety Act 2011  
Work Health & Safety Regulation 2017

ABN: 81 913 830 179  
Phone: 13 10 50

**Registration No:** **PV 6-246404/20** **Issue Date:** **14/08/2020**

**Registration Holder:** DANFOSS A/S  
**Postal Address:** 81 NORBORGVEJ  
NORDBORG 6430  
DENMARK

**Plant Type:** Pressure Vessel Original

**Model Number/ Trade Name:** PED AUSTRALIA DSH240/295

**Technical Standard :** EN 13445-1-5(2017) , EN 14276-1(2011)

**Engineering Principles:** No

**Drawing Number Design:**

**Design Description:**

Hazard Level	C
Contents	Very Harmful
Chamber 1 Volume (l)	30.4
Chamber 1 Design Pressure (kPa)	0 to 3120
Chamber 1 Temperature (°C)	-35 to 52
Chamber 1 Fluid Type	Gas
Drawing Number & Revisions	9850310_244 REV AA
Pressure Vessel	Refrigeration & airconditioning vessel
Number of Chambers	1

## REGISTRATION CONDITIONS

Design Model Cont -  
DSF240/270/295/325

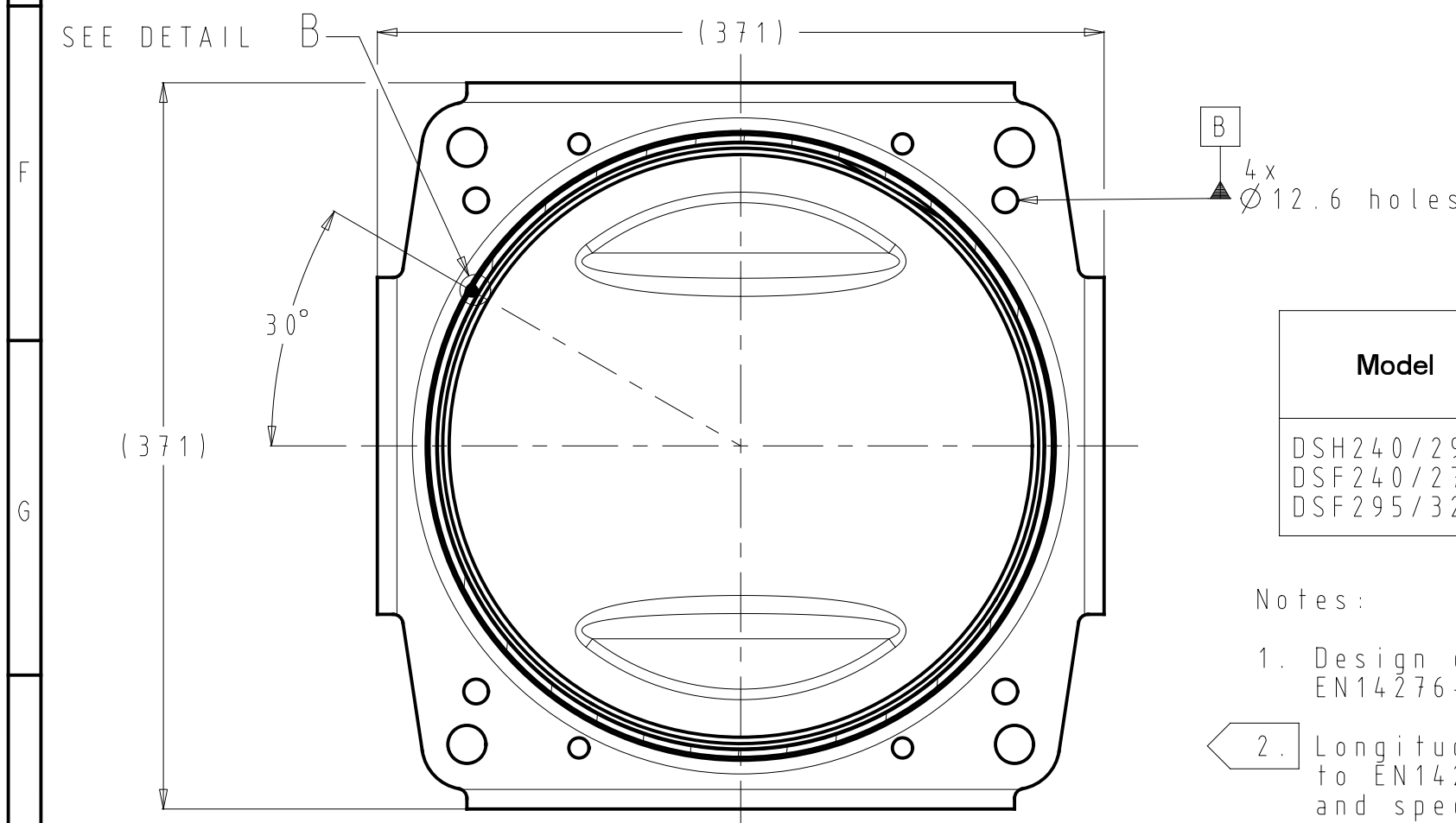
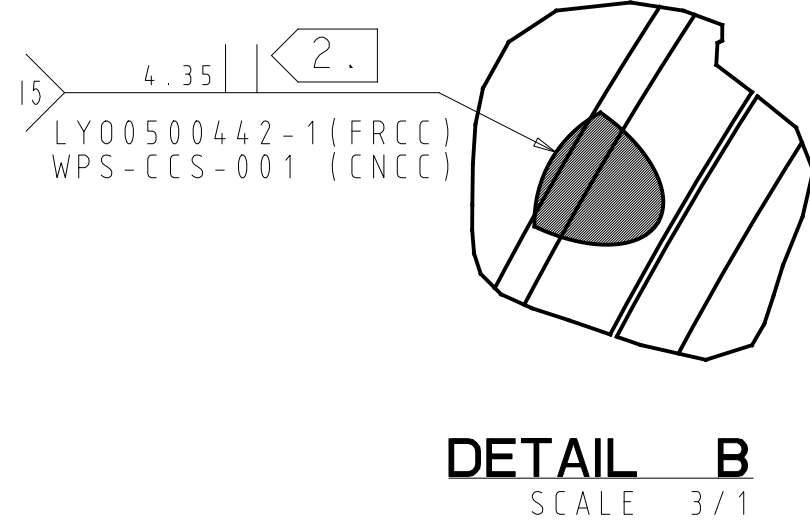
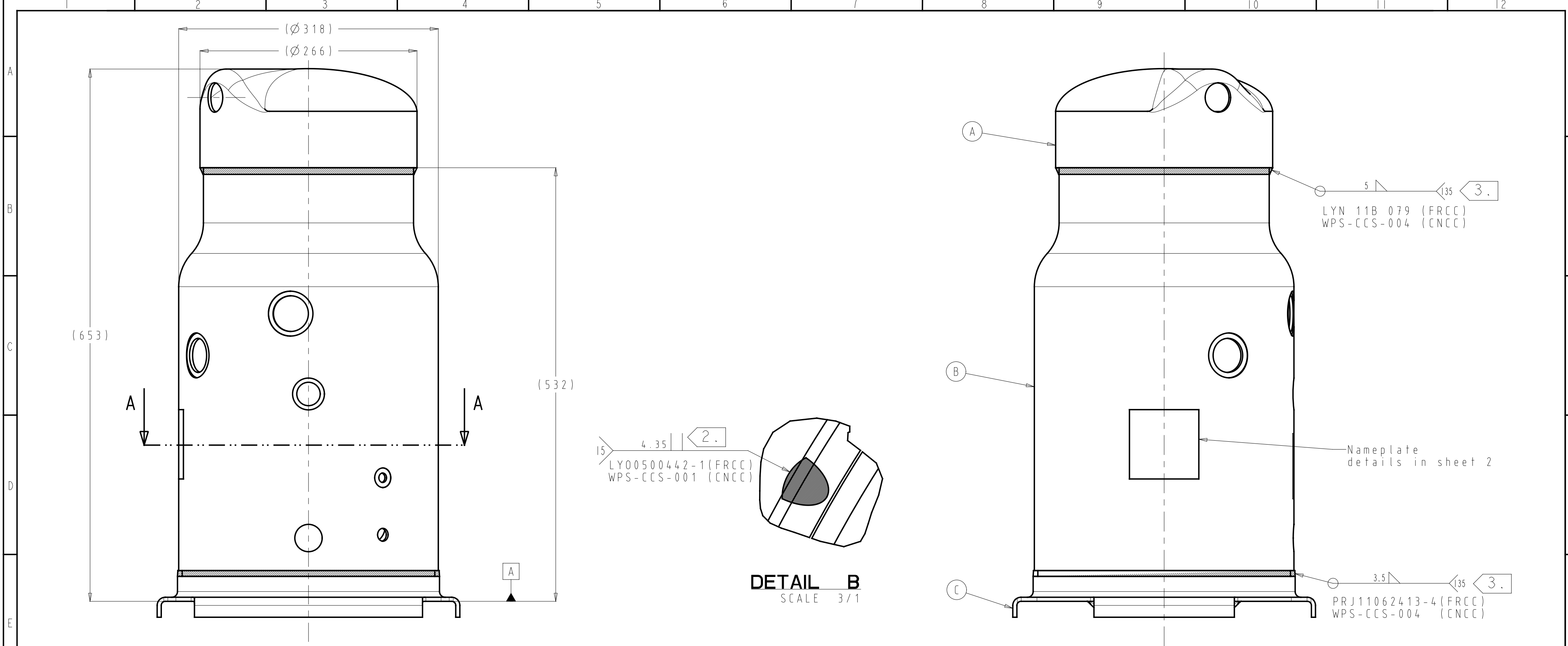
Note: The design of an item of plant registered under the Occupational Health and Safety Regulation immediately before the repeal of that regulation is deemed to have been registered under part 5.3 of the WHS Regulation

***This SafeWork NSW certificate is a reissue or amendment of a certificate which may have been originally issued under our former name of WorkCover NSW.***

**Fee Paid: \$294.17**

**Receipt Date: 5/08/2020**

**Receipt No: 30-7436**



DSH240	Pressure (bars)	Volume (L)	TSMX (°C)	TSMI (°C)
Lower Pressure	31.2	27.5	52	-35
High Pressure	48.7	2.9	150	-35

DSH295	Pressure (bars)	Volume (L)	TSMX (°C)	TSMI (°C)
Lower Pressure	31.2	27.1	52	-35
High Pressure	48.7	2.8	150	-35

DSF240 DSF270	Pressure (bars)	Volume (L)	TSMX (°C)	TSMI (°C)
Lower Pressure	31.2	27.5	51	-35
High Pressure	48.7	2.9	150	-35

DSF295 DSF325	Pressure (bars)	Volume (L)	TSMX (°C)	TSMI (°C)
Lower Pressure	31.2	27.1	51	-35
High Pressure	48.7	2.8	150	-35

Model	Part	Description	Drawing No.	FRCC		
				Thickness MIN.	Material Grade	Material Standard
DSH240/295	A	Upper shell	5312388	3.4mm	DD13	EN 10111
DSF240/270	B	Mid shell	5314305	4.35mm	P275NL1	EN 10028-3
DSF295/325	C	Lower shell	5314297	5.85mm	DD13	EN 10111

Model	Part	Description	Drawing No.	CNCC		
				Thickness MIN.	Material Grade	Material Standard
DSH240/295	A	Upper shell	5312388	3.4mm	SPHC	Q-BQB302
	B	Mid shell	5314294	3.78mm	SPHE	Q-BQB302
	C	Lower shell	5314297	5.85mm	SPHE	Q-BQB302

- Notes:
- Design code: EN13445- part 1 to 5:2017  
EN14276-1:2011, AS4343:2005 Hazard level C.
  - Longitudinal continuous welding according to EN14276-1:2011, EN5817:2014 and specification 8550091.
  - Shell welding requirements according to EN14276-1:2011, EN5817:2014 and specification 8550091.

General Tolerances Table	Drawing Status :				Production print			
	Surface Area (m2)		Estimated Mass (Kg)		Key characteristic Critical characteristic According to Danfoss standard 50220024			
	Projection		Scale					
	N/A		3/10		Size A2		Material : -	
Roughness (µm) N/A	AA	01-07-2020		Designation <b>PED AUSTRALIA DSH240/295 DSF240/270/295/325</b>				
	Revision	ECR Number	Date					
	Designer	Wu Fang						
ISO 8015 ISO 1101	Approval	Zhou Tianming		Sheet 1 of 2 AA.4 Dwg N° 9850310 244 AA				
	Confidential: Property of Danfoss Commercial Compressors. Not to be handed over to copied or used by third party. Two or three dimensional reproduction of contents to be authorized by Danfoss CC.							

Compressor

Model no: DSH240A4AXC

Serial no: GG1106563862

CE

0038

UL

US

EAC

088

2019

Refrigerant: R410A R452B R454B

PROTECTED BY DOMESTIC AND FOREIGN PATENTS

WARNING

Installation and servicing shall be performed by trained personnel only. Failure to observe these safety warnings could result in serious injury or death.  
**ELECTRIC SHOCK HAZARD:** Turn off power before servicing. (Discharge all capacitors.)  
Keep terminal cover in place and securely fastened whenever power is applied to the compressor. Use this equipment on a grounded system only.  
**HIGH PRESSURE:** System contains refrigerant and oil under pressure. Remove pressure from both the high and low side before servicing, wear safety goggles.  
**FIRE HAZARD:** Use tubing cutter to remove compressor. Do not use torch as oil may catch fire.

CAUTION

Use only manufacturer's approved refrigerants, lubricants and electrical components. Unauthorized refrigerant / lubricant / electrical component could cause fires, explosions, electrical shorting.  
  
For details refer to multi language instructions and technical documentation available on Danfoss website at <http://cc.danfoss.com>

380-400V 3~50Hz

460V 3~60Hz

LR 215,0A MAX OPER. 49 A

Thermally protected system

P.E.D.

Marking

LP Side

HP Side

PS

31,2 bar

48,7 bar

TS Max

52,0 °C

150,0 °C

TS Min

-35,0 °C

-35,0 °C

Volume

27,5 L

2,9 L

Lubricant: P.O.E. 160SZ

600115P01

Danfoss A/S, 6430 Nordborg, Denmark

Nameplate example

General Tolerances Table	Drawing Status :		Production print				<div><div><div></div><div>Key characteristic</div></div><div><div></div><div>Critical characteristic</div></div><div>According to Danfoss standard 502Z0024</div></div>			
				Surface Area (m2)						
				Estimated Mass (Kg)						
	N/A			Projection	Scale	Size				
Roughness (µm) N/A	AA		01-07-2020		3/10	A3	Material : -			
	Revision	ECR Number	Date	<div></div>			Designation			
	Designer	Wu Fang					PED AUSTRALIA DSH240/295 DSF240/270/295/325			
	Approval	Zhou Tianming								
• ISO 8015 ISO 1101	Confidential: Property of Danfoss Commercial Compressors. Not to be handed over to copied or used by third party. Two or three dimensional reproduction of contents to be authorized by Danfoss CC.						Sheet 2 of 2			
	AA. 4	Dwg N°	9850310_244	AA						