

DATA SHEET

PFS TransferSet DS Series

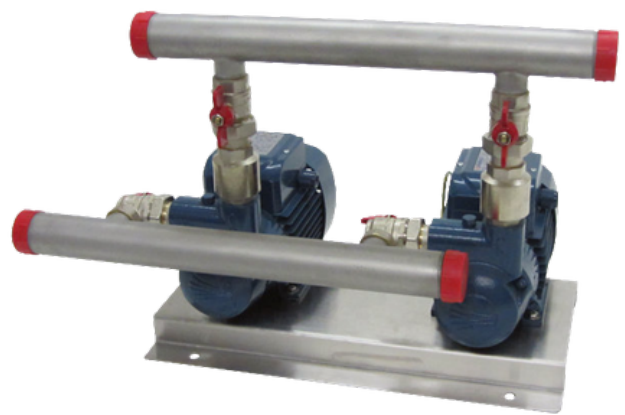


Specifications

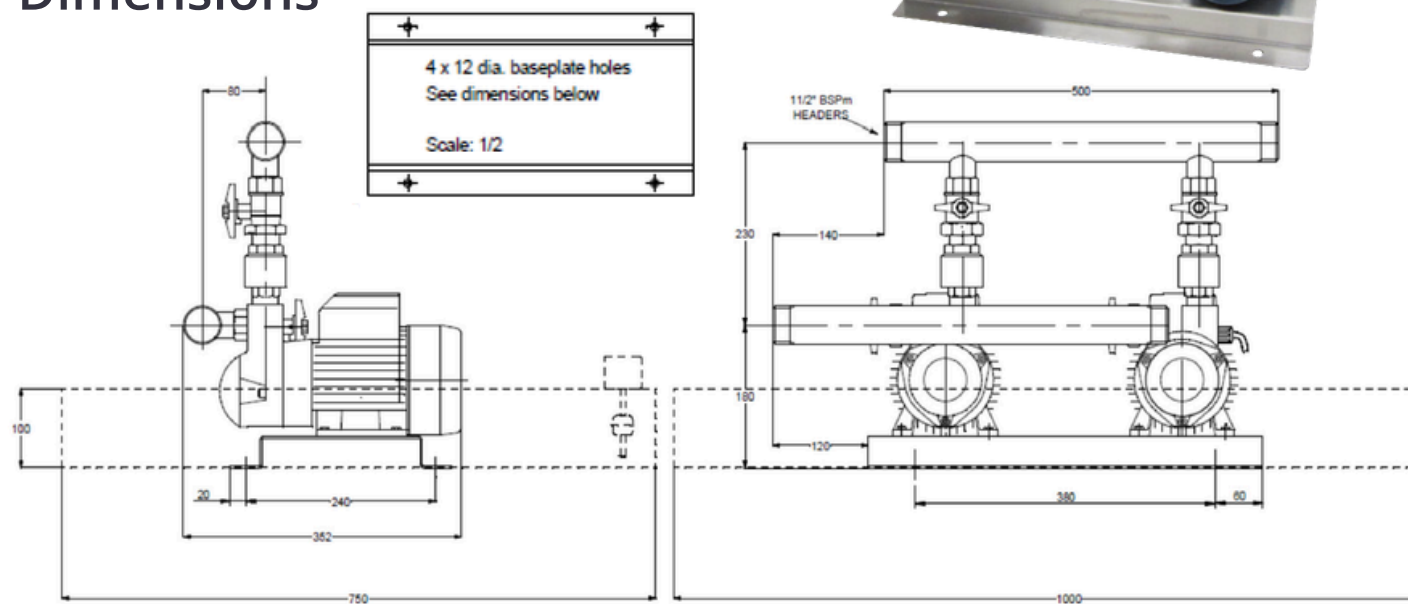
- Duty-standby twin pumpsets for diesel fuel.
- Robust peripheral impeller self priming pump.
- Stainless steel manifolds with smooth blast finish.
- High quality isolating union ball valves and non return valves.
- Mounted on stainless steel folded base plate available with a drip tray and bund alarm.
- Manifold connections: 1.1/2", threaded BSP male with two connection options on suction and discharge.
- Pressure tested with diesel fuel prior to dispatch.
- Microprocessor control panels available from stock.

Applications

- Diesel generator duties
- Bulk to day tank transfer
- Transfer between tanks
- In addition to many other applications



Dimensions



CODE	MAX FLOW RATE	MAX DISCHARGE	POWER SUPPLY
PTS-DS-D-S50-48-1P	50 litres/minutes (6 m3/h)	48 m (2900rpm/50Hz)	2 x 0.75kW /230V / 1 phase/ 50 Hz / IE3
PTS-DS-D-S50-48-3P	50 litres/minute (6 m3/h)	48 m (2900rpm/50Hz)	2 x 0.75kW /400V / 3 phase/ 50 Hz / IE3
PTS-DS-D-S50-30-1P	50 litres/minute (6 m3/h)	30 m (2900rpm/50Hz)	2 x 0.37kW /230V / 1 phase / 50 Hz / IE3
PTS-DS-D-S50-30-3P	50 litres/minute (6 m3/h)	30 m (2900rpm/50Hz)	2 x 0.37kW /230V / 3 phase / 50 Hz / IE2



PFS Fueltec Ltd
Unit 1 Domsey Farm
Domsey Chase, Feering, Essex
CO5 9ES

pfssales@pfsfueltec.com
www.pfsfueltec.com
+44 (0) 1376 535260



Clean water



Domestic use



Industrial use



Agricultural use



※ With double anti-lock front scraping

INSTALLATION AND USE

Designed for pumping diesel/naphtha and clean water free from abrasive particles and non-corrosive liquids that do not harm the pump's components.

Their specific operating mechanism makes them an excellent solution when a compact self-priming pump is required or when the flow of the liquid is irregular or mixed with air.

APPLICATION LIMITS

- Suction head up to **9 m (HS)**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **6 bar**

AVAILABLE UPON REQUEST

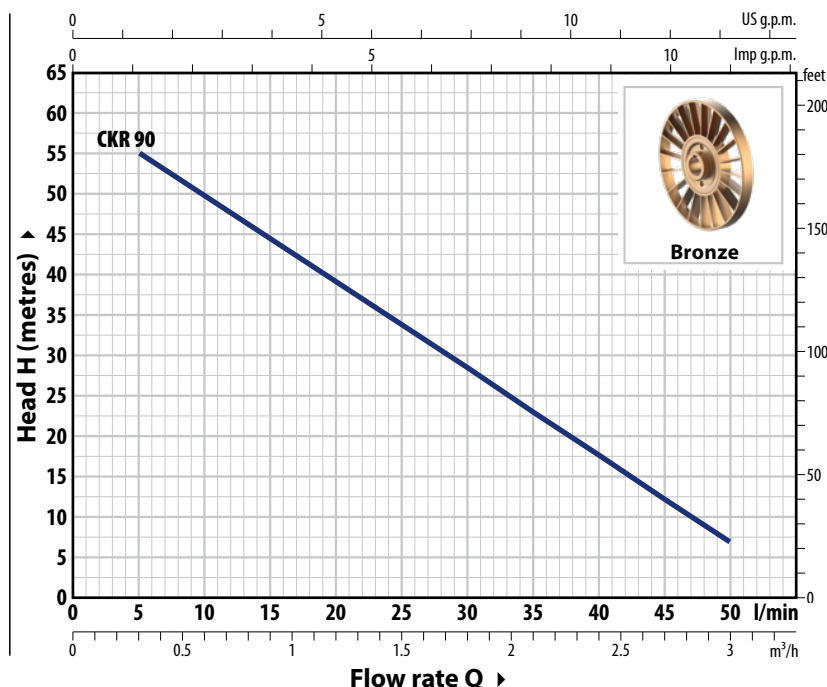
- ✖ Mechanical seal options available
- ✖ Specific voltages
- ✖ Protection rating: IP 55

PATENTS - TRADE MARKS - MODELS

- Motor bracket: Patent No. IT1243605

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



ABSORPTION

TYPE	VOLTAGE
Single-ph.	230 V
CKRm 90	5.7 A

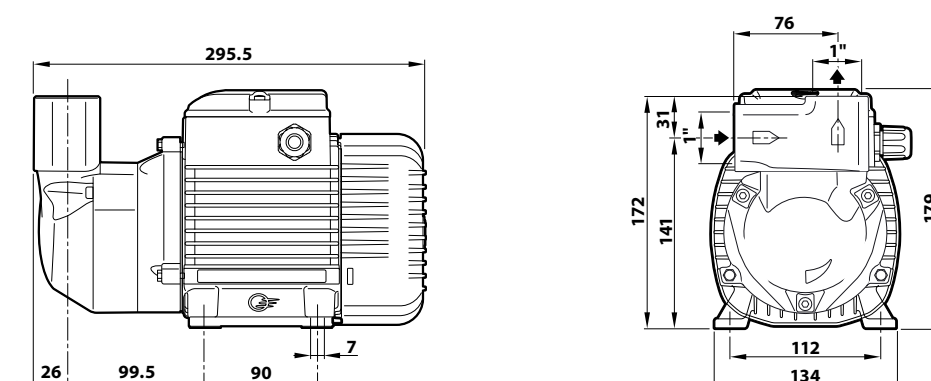
TYPE	VOLTAGE	
Three-ph.	230 V - Δ	400 V - 人
CKR 90	4.0 A	2.3 A

TYPE		POWER (P ₂)		1~3~	Q	m³/h													
Single-ph.	Three-ph.	kW	HP			0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0			
						0	5	10	15	20	25	30	35	40	45	50			
CKRm 90	CKR 90	0.75	1	IE2 IE3	H metres	60	55	49.7	44.3	39	33.7	28.3	23	17.7	12.3	7			

Q = Flow rate H = Total manometric head HS = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

DIMENSIONS (mm)



TYPE		PORTS		WEIGHT (kg)		PALLET CAPACITY
Single-phase	Three-phase	DN1	DN2	1~	3~	
CKRm 90	CKR 90	1"	1"	12.0	12.0	119

CONSTRUCTION FEATURES

1	Pump body	Cast iron, with stainless-steel front shaving surface to prevent the impeller from locking due to oxidation. The pump body is equipped with ISO 228/1 threaded ports	
2	Motor bracket	Aluminium with brass cover with front anti-locking shim function (patented)	
3	Impeller	Bronze, star-type with open radial vanes	
4	Mechanical seal	Type	Materials
		AR-12V	Ceramic / Graphite / Viton
5	Shaft	Stainless steel AISI 431	
6	Electric motor	CKRm : single-phase 230 V - 50 Hz with winding integrated thermal motor protection	
		CKR : three-phase 230/400 V - 50 Hz	
		※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1)	
		class IE2 for single-phase models	
		class IE3 for three-phase models	
		– Continuous running duty S1	
		– Insulation: class F	
		– Protection rating: IP X4	

