

Created by: Phone:

Date: 23/06/2022

Qty. | Description

1 TPE2 D 80-150 N-A-F-A-BQQE-HAB



Note! Product picture may differ from actual product

Product No.: 98437787

Single-stage, close-coupled, volute twin-head pump with in-line suction and discharge ports of identical diameter. The twin-head pump is designed with two parallel power-heads.

The pump is of the top-pull-out design, i.e. the power head (motor, pump head and impeller) can be removed for maintenance or service while the pump housing remains in the pipework.

Each power head is fitted with an unbalanced rubber bellows seal.

The shaft seal is according to EN 12756. Pipework connection is via PN 10 DIN flanges (EN 1092-2 and ISO 7005-2).

Each power head is fitted with a fan-cooled, permanent-magnet synchronous motor of identical size. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

Wireless communication between the two power heads is quickly and easily obtained. The pump heads can be set to cascade mode, alternating mode or duty/standby.

The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013

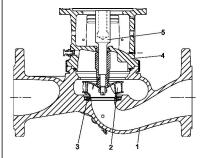
An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

- "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)
- "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
- "Alarm": Motor has stopped (flashing red indicator lights).

Communication with the pump is possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

Pump



- 1: Pump housing
- 2: Impeller
- 3: Neck ring
- 4: Pump head/motor stool



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5: Stub shaft

The twin-head pump is designed with two parallel power-heads. A flap valve in the common discharge port is opened by the flow of the pumped liquid and prevents backflow of liquid into the idle pump head.

The pump housing is provided with a replaceable stainless steel/PTFE neck ring to reduce the amount of liquid running from the discharge side of the impeller to the suction side.

The impeller is secured to the shaft with a nut.

The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft.

Seal faces:

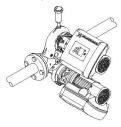
- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

Twin-head pumps installed in horizontal pipes must be fitted with an automatic air vent in the upper part of the pump housing. The automatic air vent is not supplied with the pump.



The motor stool forms connection between the pump housing and the motor, and is equipped with a manual air vent screw for venting of the pump housing and the shaft seal chamber. The sealing between motor stool and pump housing is an O-ring.

The central part of the motor stool is provided with guards for protection against the shaft and coupling. The pump shaft is fastened directly on the motor shaft with key and set screws.

Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Further product details

Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

Technical data

Controls:

Frequency converter: Built-in

Liquid:

Pumped liquid: Water
Liquid temperature range: -25 .. 120 °C
Selected liquid temperature: 20 °C
Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 3400 rpm

Rated flow: 42.7 m³/h



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Rated head: 9.8 m
Actual impeller diameter: 90 mm
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B2

Materials:

Pump housing: Cast iron

EN-GJL-250 ASTM class 35

Impeller: Composite PES+30% GF

Installation:

Range of ambient temperature: $-20 ... 50 \,^{\circ}\text{C}$ Maximum operating pressure: $10 \, \text{bar}$

Max pressure at stated temp: 10 bar / 120 °C

Type of connection: DIN
Size of connection: DN 80
Pressure rating for connection: PN 10
Port-to-port length: 360 mm
Flange size for motor: 56C

Electrical data:

Motor type: 90SC
IE Efficiency class: IE5
Rated power - P2: 1.5 kW
Mains frequency: 50 / 60 Hz
Rated voltage: 1 x 200-240 V
Rated current: 9.10-7.60 A

Cos phi - power factor: 0.99

Rated speed: 360-4000 rpm
Efficiency: 87.4%
Motor efficiency at full load: 87.4 %
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F

Motor No: 99137996

Others:

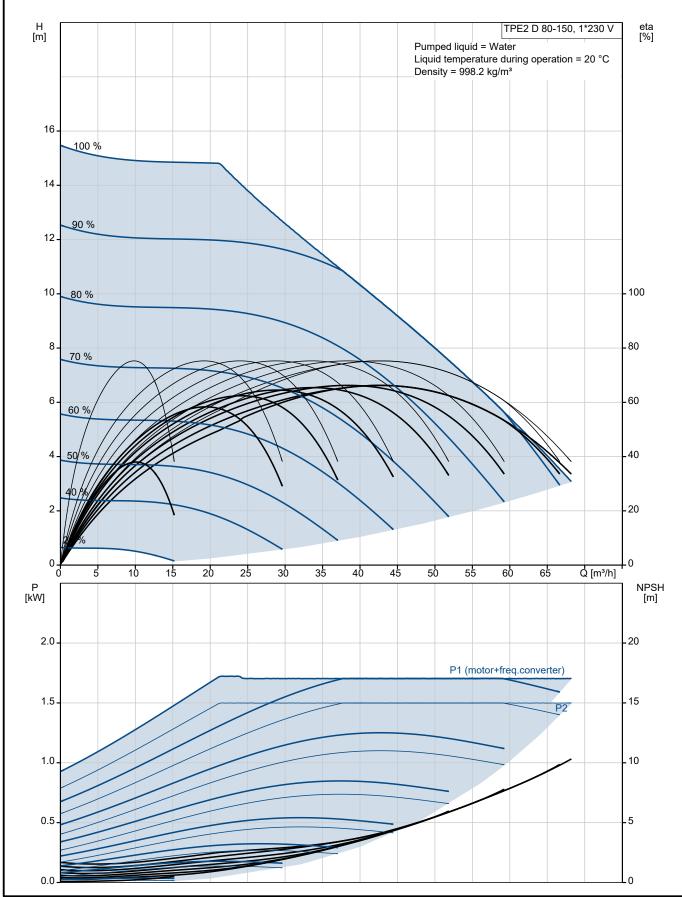
Minimum efficiency index, MEI ≥: 0.70
Net weight: 63.9 kg
Gross weight: 77.2 kg
Shipping volume: 0.252 m³
Country of origin: HU
Custom tariff no.: 84137065



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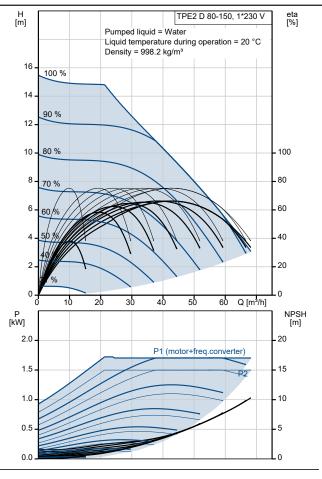


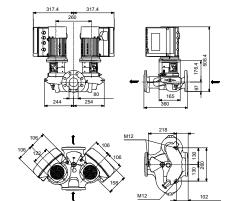


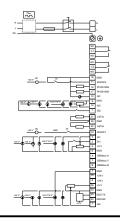
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Description Value General Information: TPE2 D 80-150 Product name: TPE2 D 80-150 Product No: 98437787 EAN number: 5711495009588 Technical: 3400 rpm Pump speed on which pump data are based: 3400 rpm Rated flow: 42.7 m³/h Rated head: 9.8 m Maximum head: 150 dm Actual impeller diameter: 90 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Materials: PUmp brousing: Pump housing: Cast iron Pump housing: ASTM class 35 Impeller: Composite Impeller: PES+330% GF Material code: A Asterial stone: PES+330% GF Material code: A Impeller: PES+330% GF Material code: A Installation: A Rate of ambient temperature: -20 50 °C <		
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Size of connection: Pressure rating for connection: PN 10 Port-to-port length: Flange size for motor: Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Possity: Fated power - P2: Mains frequency: Rated current: Cos phi - power factor: Briciency: Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection: Cothers: Minimum efficiency index, MEI ≥: Monand Mater DN 80 PN 10 FULL Cast (IEC 85): Full load: Briciency: Brid 10 PN 10 P	Max pressure at stated temp:	10 bar / 120 °C
Pressure rating for connection: PN 10 Port-to-port length: 360 mm Flange size for motor: 56C Connect code: F Liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 90SC IE Efficiency class: IE5 Rated power - P2: 1.5 kW Mains frequency: 50 / 60 Hz Rated voltage: 1 x 200-240 V Rated current: 9.10-7.60 A Cos phi - power factor: 0.99 Rated speed: 360-4000 rpm Efficiency: 87.4% Motor efficiency at full load: 87.4 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137996 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	•	DIN
Port-to-port length: 360 mm Flange size for motor: 56C Connect code: F Liquid: Vater Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 90SC IE Efficiency class: IE5 Rated power - P2: 1.5 kW Mains frequency: 50 / 60 Hz Rated voltage: 1 x 200-240 V Rated current: 9.10-7.60 A Cos phi - power factor: 0.99 Rated speed: 360-4000 rpm Efficiency: 87.4% Motor efficiency at full load: 87.4 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137996 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		
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Connect code:FLiquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:Motor type:90SCIE Efficiency class:IE5Rated power - P2:1.5 kWMains frequency:50 / 60 HzRated voltage:1 x 200-240 VRated current:9.10-7.60 ACos phi - power factor:0.99Rated speed:360-4000 rpmEfficiency:87.4%Motor efficiency at full load:87.4 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99137996Controls:Control panel:HMI200 - StandardFunction Module:FM300 - AdvancedFrequency converter:Built-inOthers:Minimum efficiency index, MEI ≥:0.70		
Liquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:WaterMotor type:90SCIE Efficiency class:IE5Rated power - P2:1.5 kWMains frequency:50 / 60 HzRated voltage:1 x 200-240 VRated current:9.10-7.60 ACos phi - power factor:0.99Rated speed:360-4000 rpmEfficiency:87.4%Motor efficiency at full load:87.4 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99137996Controls:Control panel:HMI200 - StandardFunction Module:FM300 - AdvancedFrequency converter:Built-inOthers:Minimum efficiency index, MEI ≥:0.70	_	
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Density: 998.2 kg/m³ Electrical data: 90SC IE Efficiency class: IE5 Rated power - P2: 1.5 kW Mains frequency: 50 / 60 Hz Rated voltage: 1 x 200-240 V Rated current: 9.10-7.60 A Cos phi - power factor: 0.99 Rated speed: 360-4000 rpm Efficiency: 87.4% Motor efficiency at full load: 87.4 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137996 Controls: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		
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Efficiency: 87.4% Motor efficiency at full load: 87.4 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137996 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		
Motor efficiency at full load: 87.4 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137996 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	•	•
Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137996 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	•	
Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137996 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		*****
Built-in motor protection: ELEC Motor No: 99137996 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	· · · · · · · · · · · · · · · · · · ·	
Motor No:99137996Controls:HMI200 - StandardControl panel:FM300 - AdvancedFunction Module:FM300 - Built-inOthers:Others:Minimum efficiency index, MEI ≥:0.70	•	
Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		
Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		99137996
Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		
Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	•	
Others: Minimum efficiency index, MEI ≥: 0.70		
Minimum efficiency index, MEI ≥: 0.70		Built-in
Net weight: 63.9 kg		
	Net weight:	63.9 kg









Created by: Phone:

Date: 23/06/2022

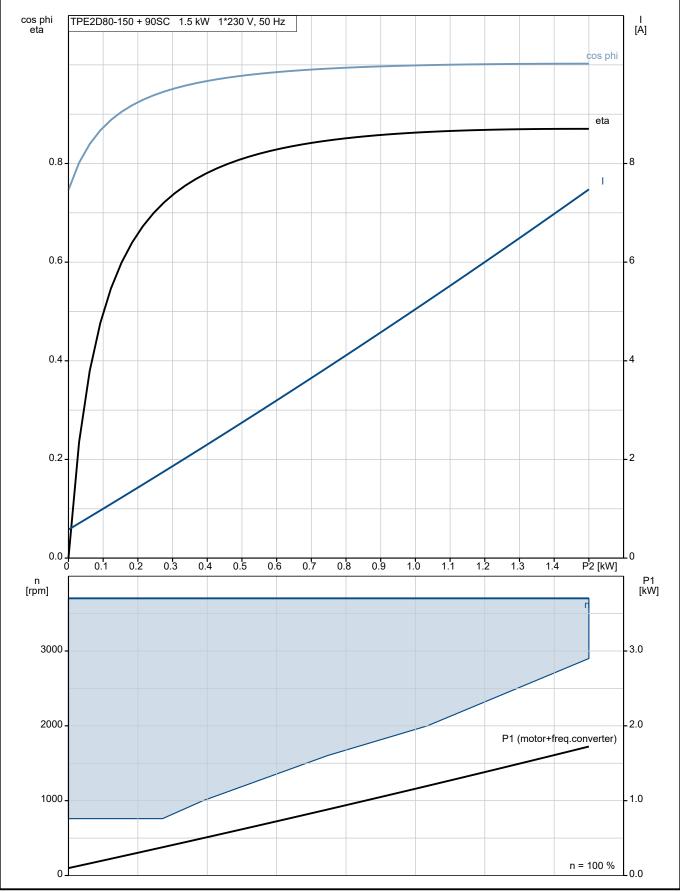
Description	Value
Gross weight:	77.2 kg
Shipping volume:	0.252 m³
Config. file no:	98819186
Country of origin:	HU
Custom tariff no.:	84137065



Created by: Phone:

Date: 23/06/2022

98437787 TPE2 D 80-150 N-A-F-A-BQQE-HAB

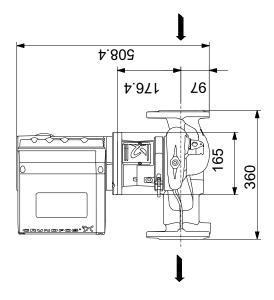


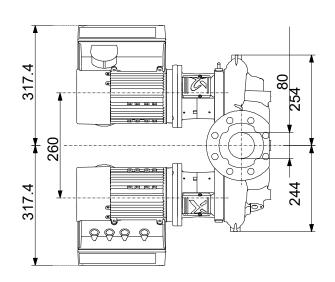


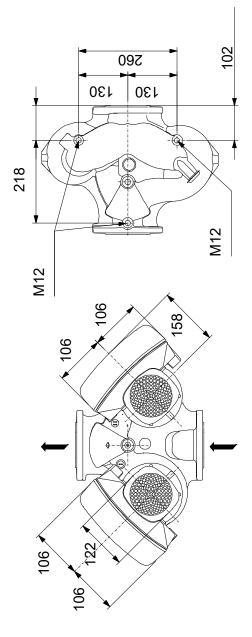
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23/06/2022 Date:

98437787 TPE2 D 80-150 N-A-F-A-BQQE-HAB







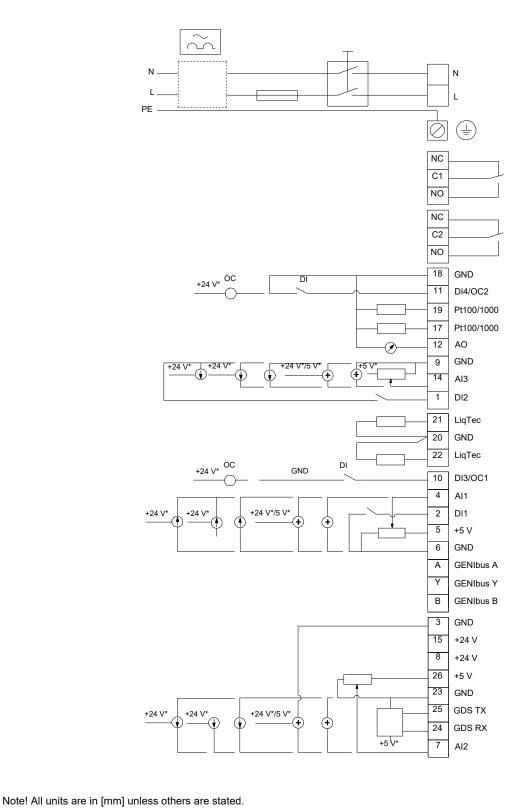
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Created by: Phone:

Date: 23/06/2022

98437787 TPE2 D 80-150 N-A-F-A-BQQE-HAB





Created by: Phone:

Date: 23/06/2022

Order Data:

Product name: TPE2 D 80-150

Amount: 1

Product No: 98437787

Total: Price on request