# TURBO®

ITALY
CERTIFIED ITALIAN EXCELLENCE

## Twin impeller centrifugal pumps

**NEW**




**MADE IN ITALY**

**2025**

PEDROLLO®
*the spring of life*

1974·2024 50TH

# TURBO

Clean water
Domestic use
Civil use
Industrial use

## ※ TURBO. Power, efficiency, and quiet performance.

### ※ ADVANCED HYDRAULIC REDESIGN

The new TURBO twin-impeller centrifugal pumps mark a significant step forward, thanks to an advanced hydraulic redesign optimized through state-of-the-art fluid dynamic simulations.

This innovative approach has led to a **flow rate increase of up to 40%** (+40 litres per minute), a 9-point boost in efficiency, and a **30% reduction in noise levels** all without raising energy consumption.




### ※ EFFICIENCY MEETS SUSTAINABILITY

An outstanding efficiency result that meets the demands of a market increasingly focused on energy savings and environmental sustainability.

### ※ DURABILITY AND USER COMFORT

Stainless steel impellers ensure greater durability and reliability, while the optimized geometry and refined hydraulics contribute to enhanced user comfort thanks to significantly reduced noise levels and overall quiet operation.

### ※ PERFORMANCE AND ENERGY SAVINGS

The ideal choice for those seeking higher performance with lower energy consumption all with a strong focus on sustainability.

### PERFORMANCE RANGE

- Flow rate up to **200 l/min** (12 m³/h)
- Head up to **68 m**

### INSTALLATION AND USE

Recommended for pumping clean water.
Their high efficiency and versatility make them ideal for a wide range of domestic, civil, and industrial applications particularly for water distribution using booster sets and storage tanks, mains pressure boosting, and irrigation systems.

### ELECTRIC MOTOR

TURBO pumps are equipped with newly designed electric motors, engineered for inverter operation to ensure smooth and quiet performance. Efficiency class **IE3** for three-phase motors and **IE2** for single-phase versions.
Class F insulation and IPX4 protection rating.

### APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between from **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum working pressure **10 bar**

### AVAILABLE UPON REQUEST

※ Mechanical seal options available
※ Different voltage requirements 60 Hz frequency
※ IPX5 protection

### PATENTS - TRADE MARKS - MODELS

- European Patent No.EP22187624.6
- Registered model in progress

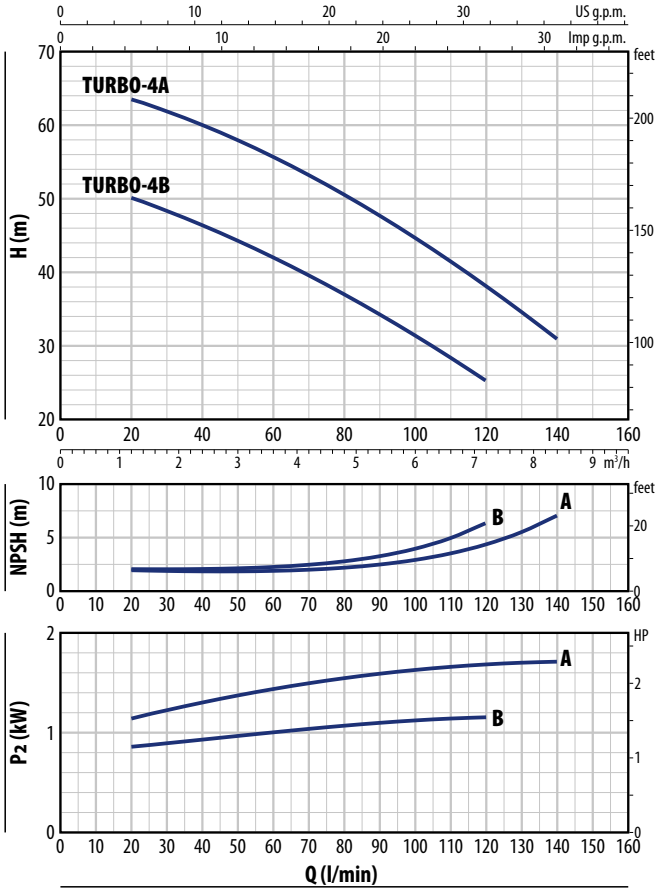
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =
ECO FRIENDLY
ErP ready
RoHS2 COMPLIANT
REACH COMPLIANT
EMC COMPLIANT

# TURBO

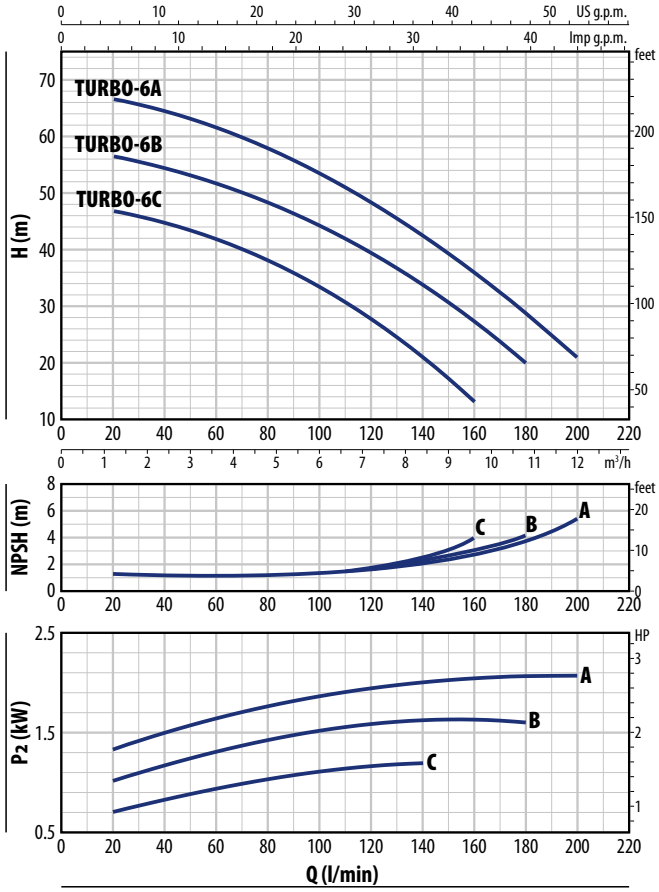
## CURVES AND PERFORMANCE DATA – HS=0 m

**50 Hz**

## TURBO-4




## TURBO-6




## TURBO-4

| TYPE | | POWER (P2) | | | | Q | m³/h | 0 | 1.2 | 2.4 | 3.6 | 4.8 | 6 | 7.2 | 8.4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | kW | HP | 1~ | 3~ | | l/min | **0** | **20** | **40** | **60** | **80** | **100** | **120** | **140** |
| **TURBOm 4B** | **TURBO 4B** | 1.1 | 1.5 | **IE2** | **IE3** | **H** | m | 53 | 50 | 46.3 | 42 | 37 | 31.3 | 25 | |
| **TURBOm 4A** | **TURBO 4A** | 1.5 | 2 | | | | | 66 | 63.5 | 60 | 55.6 | 50.4 | 44.6 | 38 | 31 |

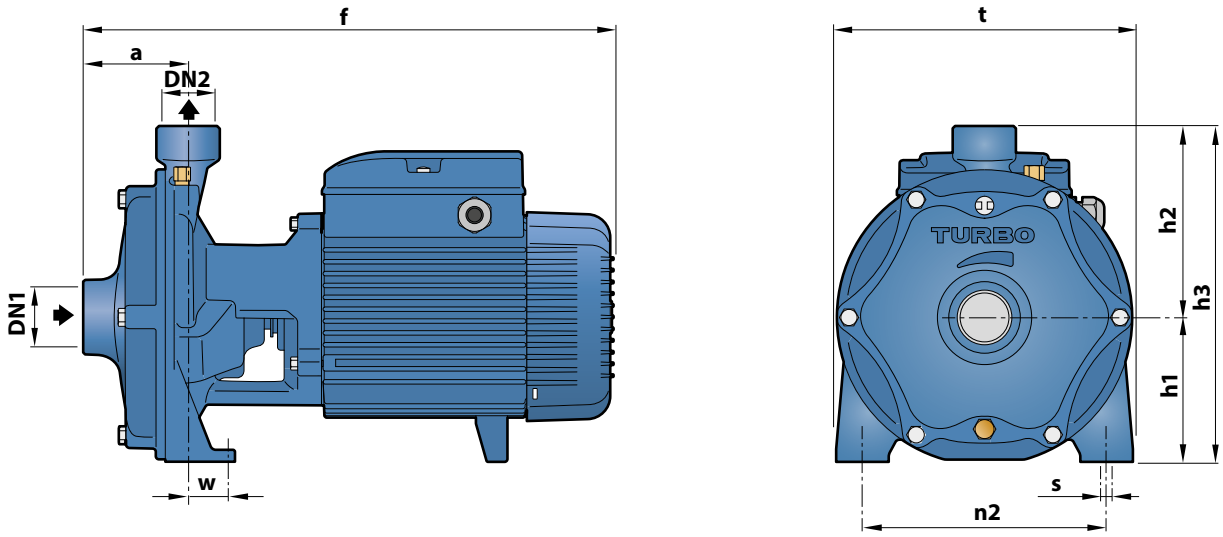
## TURBO-6

| TYPE | | POWER (P2) | | | | Q | m³/h | 0 | 1.2 | 2.4 | 3.6 | 4.8 | 6 | 7.2 | 8.4 | 9.6 | 10.8 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | kW | HP | 1~ | 3~ | | l/min | **0** | **20** | **40** | **60** | **80** | **100** | **120** | **140** | **160** | **180** | **200** |
| **TURBOm 6C** | **TURBO 6C** | 1.1 | 1.5 | **IE2** | **IE3** | **H** | m | 48 | 47 | 44.7 | 41.8 | 38 | 33.3 | 27.7 | 21 | 13 | | |
| **TURBOm 6B** | **TURBO 6B** | 1.5 | 2 | | | | | 58 | 56.5 | 54.4 | 51.7 | 48.3 | 44.2 | 39.4 | 33.8 | 27.3 | 20 | |
| **TURBOm 6A** | **TURBO 6A** | 2.2 | 3 | | | | | 68 | 66.5 | 64.5 | 61.6 | 58 | 53.5 | 48.4 | 42.6 | 36 | 28.8 | 21 |

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

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

## DIMENSIONS AND WEIGHT




| TYPE | | PORTS | | DIMENSIONS mm | | | | | | | | | kg | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Single-phase** | **Trifase** | **DN1** | **DN2** | a | f | h1 | h2 | h3 | t | n2 | w | s | 1~ | 3~ |
| **TURBOm 4B** | **TURBO 4B** | **1¼"** | **1"** | 80 | 403 | 93 | 132 | 225 | 203 | 162 | 17 | 10 | 21.5 | 21 |
| **TURBOm 4A** | **TURBO 4A** | | | | | 110 | 146 | 256 | 225 | 185 | 26 | 11 | 24.3 | 24.5 |
| **TURBOm 6C** | **TURBO 6C** | | | | | 93 | 132 | 225 | 203 | 162 | 17 | 10 | 21.4 | 20.9 |
| **TURBOm 6B** | **TURBO 6B** | | | | | 110 | 146 | 256 | 225 | 185 | 26 | 11 | 24.2 | 24.4 |
| **TURBOm 6A** | **TURBO 6A** | | | | 423 | | | | | | | | 27.1 | 27.3 |

## PALLET CAPACITY

| TYPE | | NO. OF PUMPS |
|---|---|---|
| **Single-phase** | **Three-phase** | |
| **TURBOm 4B** | **TURBO 4B** | 50 |
| **TURBOm 4A** | **TURBO 4A** | |
| **TURBOm 6C** | **TURBO 6C** | |
| **TURBOm 6B** | **TURBO 6B** | |
| **TURBOm 6A** | **TURBO 6A** | 35 |

## MATERIALS AND COMPONENTS

| | | |
|---|---|---|
| 1 | **Suction body** | Ghisa, provvisto di bocca di aspirazione filettata ISO 228/1 |
| 2 | **Delivery port** | Ghisa, provvisto di bocca di mandata filettata ISO 228/1 |
| 3 | **Gaskets** | NBR |
| 4 | **Impellers** | Stainless steel **AISI 304** |

**5 Mechanical seal**

| Pumps | Seal | Shaft | Materials |
|---|---|---|---|
| TURBO-4<br>TURBO-6 | **FN-18** | Ø 18 mm | Grafite / Ceramica / NBR |

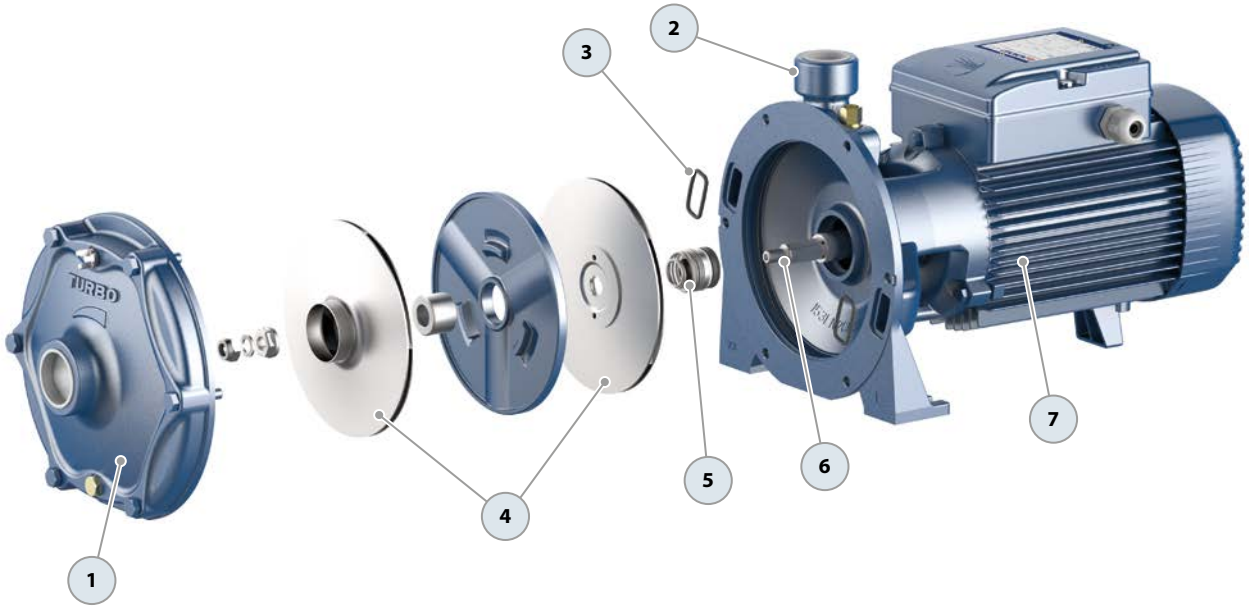
| | | |
|---|---|---|
| 6 | **Motor shaft** | Stainless steel **AISI 431** |

**7 Electric motor**

**TURBOm**: single-phase 230 V - 50Hz with winding integrated thermal motor protection.
**TURBO**: 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**



# TURBO Technical data

## ABSORPTION

| TYPE | VOLTAGE |
|---|---|
| **Single-phase** | **230 V** |
| **TURBOm 4B** | 7.0 A |
| **TURBOm 4A** | 10.0 A |
| **TURBOm 6C** | 7.0 A |
| **TURBOm 6B** | 10.0 A |
| **TURBOm 6A** | 12.0 A |

| TYPE | VOLTAGE | |
|---|---|---|
| **Three-phase** | **230 V - Δ** | **400 V - ⅄** |
| **TURBO 4B** | 4.9 A | 2.8 A |
| **TURBO 4A** | 6.4 A | 3.7 A |
| **TURBO 6C** | 4.9 A | 2.8 A |
| **TURBO 6B** | 6.4 A | 3.7 A |
| **TURBO 6A** | 8.7 A | 5.0 A |

## CAPACITORS

| TYPE | CAPACITY |
|---|---|
| **Single-phase** | |
| **TURBOm 4B** | 31.5 µF - 450 VL |
| **TURBOm 4A** | 45 µF - 450 VL |
| **TURBOm 6C** | 31.5 µF - 450 VL |
| **TURBOm 6B** | 45 µF - 450 VL |
| **TURBOm 6A** | 50 µF - 450 VL |

## APPLICATION EXAMPLES

### PRESSURE UNITS

CB2 with **TURBO** pumps: compact, efficient, affordable.

Recommended for their simple construction, cost-effectiveness, and tangible benefits:

– flow rate up to +40%;
– efficiency improved by 9 points;
– noise reduction by 30%.

The ideal choice for high-performance, low-cost units.



### PUMPS WITH INVERTERS

**TURBO** with inverter: efficiency and savings in a single unit.

Automatically adjusts the flow rate, reduces energy consumption, and keeps performance under control.



**TURBO-4B**
**TURBO-6C**

**TURBO-4A**
**TURBO-6A**
**TURBO-6B**

*PEDROLLO S.p.a. reserves the right to make modification without prior notice*

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