

TURBOLAB Core

The straight forward, simple high vacuum pumping station from Leybold





TURBOLAB Core: cost efficient, easy to use pumping station

This entry level pumping station incorporates a turbomolecular pump and a backing pump together with a simple controller, all 3 fitted on a robust baseplate, making it the ideal solution for many applications!

Compact, dry, high performance pumping station

Built on a single platform, this pumping station is certainly one of the best solutions for most general laboratory needs.

Thanks to its small footprint, low vibrations and noise level the TURBOLAB Core can easily be integrated in your working environment.

The turbomolecular pump

The TURBOLAB Core comes with a choice of 2 TURBOVAC i turbomolecular pumps: so you have the option to select a TURBOVAC 90 i or a TURBOVAC 250 i depending on your pumping speed requirements.

The backing pump

Performance is met thanks to the DIVAC 1.4 diaphragm vacuum pump which fulfills all expectations in terms of reliability, simplicity and precision.

The controller

Displays gauge pressure or turbopump speed.
A single start/stop button for the entire pumping station.

The optional accessories

With its one gauge connection the TURBOLAB Core pumping station can be operated with either a:

- THERMOVAC TTR 91 RN
- THERMOVAC TTR 101
- PENNINGVAC PTR 90 N
- PENNINGVAC PTR 225 N

Additionally you can connect a venting valve with the turbomolecular pump.

The ideal pumping station for many high vacuum applications

- Research and development
- High and ultra high vacuum systems
- Analytics
- Surface physics
- High energy physics /accelerators

Technical data and ordering information

Technical data

TURBOLAB Core		90 i			250 i	
High vacuum connection	DN	KF 40	ISO 63	CF 63	ISO 100	CF 100
Fore vacuum connection	DN	16 KF				
Pumping speed for N ₂	l/s	40	90		250	
Ultimate pressure	mbar	8 x 10 ⁻⁸	8 x 10 ⁻⁸	5 x 10 ⁻¹⁰	8 x 10 ⁻⁸	5 x 10 ⁻¹⁰
Mains supply	V	110 /230 +/- 10%				
Power consumption	W	250				
Weight	kg	26			27	30

Ordering information

Product Name	High vacuum pump	Backing pump	Flange	Part number
TURBOLAB Core	TURBOVAC 90 i	DIVAC 1.4	63 ISO-K	501591V00000500
			63 CF	501591V01000500
			40 KF	501591V02000500
	TURBOVAC 250 i		100 ISO-K	501591V08000500
	100 CF		501591V09000500	

Ordering information vacuum gauges and venting valve

Product Name	Part Number
THERMOVAC TTR 91-RN	21L1011100
PENNINGVAC PTR 90 N	230070V02
THERMOVAC TTR 101	230350V01 / 230354V01
PENNINGVAC PTR 225 N	15734V02
Venting valve, 24 V DC, G1/8"	800120V0012

Ordering information mains cables

Product name	Part number
Mains cable with Euro-plug, 3 m	800102V0002
Mains cable with UK-plug, 3 m	800102V0003

Ordering information mains cables

Product name	Part number
Mains cable with US-plug, 3 m	800102V1002

TURBOLAB Core



 **Leybold**

Pioneering products. Passionately applied.

3610 0891 02 - Leybold GmbH, Germany - August 2021. All rights reserved. Subject to change without notice or obligation. Read all safety instructions in the manual before usage