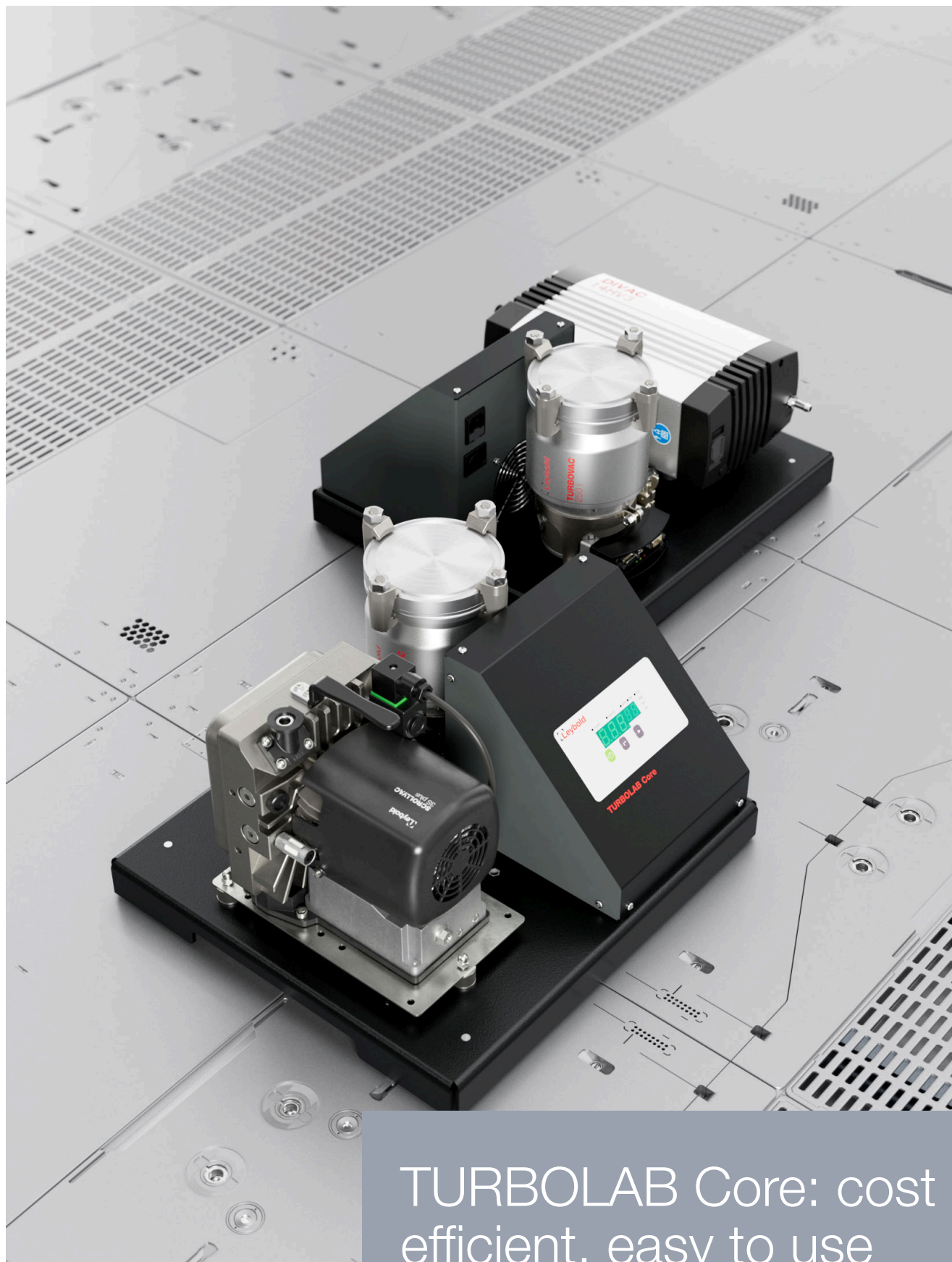


TURBOLAB Core

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

Fore vacuum is achieved with either the compact SCROLLVAC 3S (3 m³/h pumping speed), or the DIVAC 1.4 diaphragm pump (1.4 m³/h pumping speed). The SCROLLVAC 3S additionally comes with a fitted inlet valve to protect the pump in the event of a power failure, exhaust filtered gas ballast, and replaceable components for extended lifetime.

The controller

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

The optional accessories

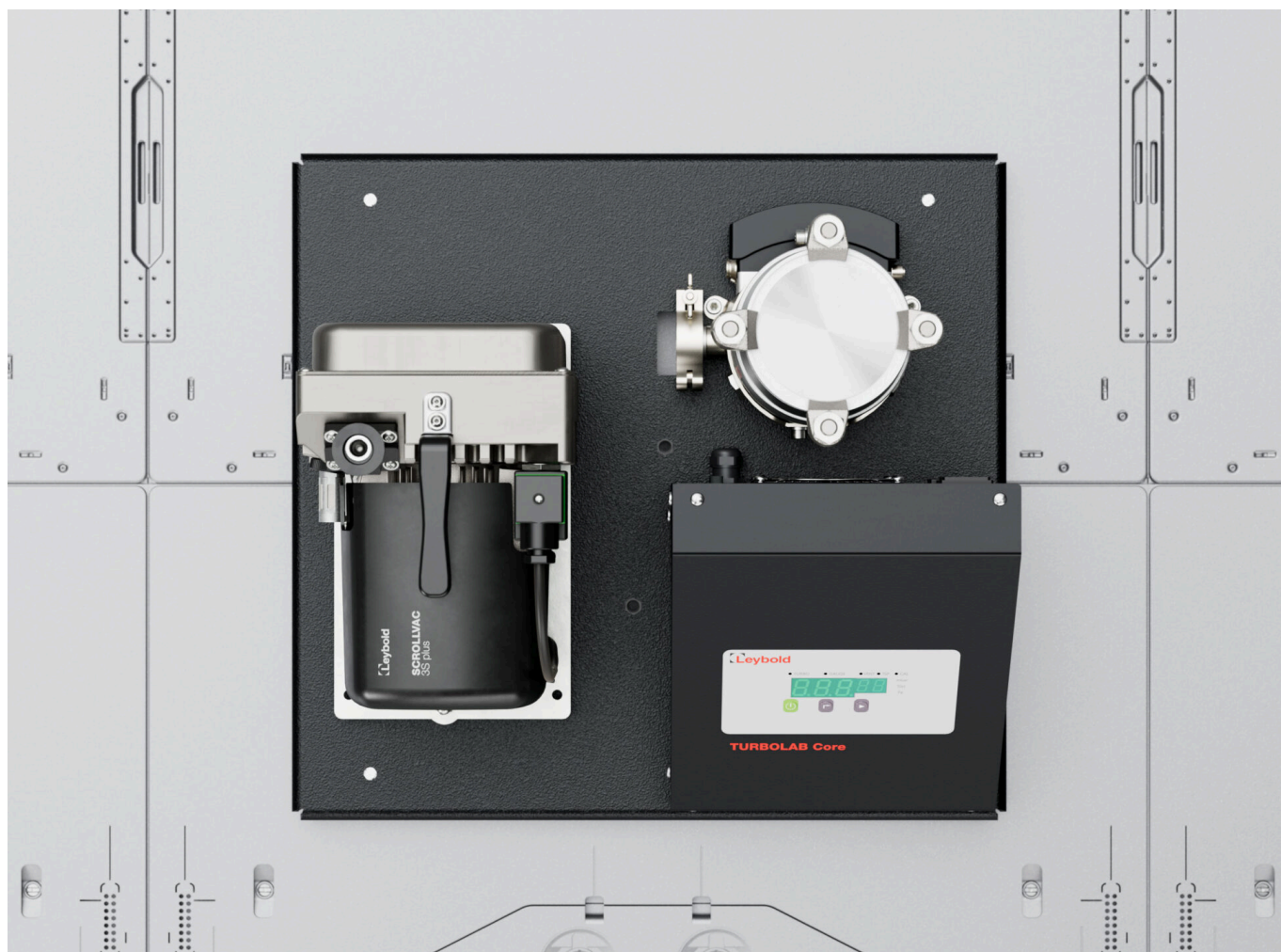
With its one gauge connection the TURBOLAB Core pumping station can be operated with either a:

- 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

Parameter		TURBOVAC 90 i			TURBOVAC 250 i	
High vacuum connection	DN	KF40	ISO63	CF63	ISO100	CF100
Fore vacuum connection		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	100/115/200/230				
Power consumption (with SCROLLVAC 3S)	W	500				
Power consumption (with DIVAC 1.4)		250				
Weight (with SCROLLVAC 3S)	kg	22		24	26	27
Weight (with DIVAC 1.4)			26		27	30

Ordering information

Product Name	High vacuum pump	Backing pump	Flange	Voltage	Part number
TURBOLAB Core	TURBOVAC 90 i	SCROLLVAC 3S	63 ISO-K	230V	501591V00023300
				200V	501591V00023200
				115V	501591V00023100
				100V	501591V00023000
			63 CF	230V	501591V01023300
				200V	501591V01023200
				115V	501591V01023100
				100V	501591V01023000
			40 KF	230V	501591V02023300
				200V	501591V02023200
				115V	501591V02023100
				100V	501591V02023000
	TURBOVAC 250 i	DIVAC 1.4	63 ISO-K		501591V00000500
			63 CF		501591V01000500
			40 KF		501591V02000500
		SCROLLVAC 3S	100 ISO-K	230V	501591V08023300
				200V	501591V08023200
				115V	501591V08023100
				100V	501591V08023000
			100 CF	230V	501591V09023300

Ordering information

Product Name	High vacuum pump	Backing pump	Flange	Voltage	Part number
TURBOLAB Core	TURBOVAC 250 i	SCROLLVAC 3S	100 CF	200V	501591V09023200
				115V	501591V09023100
				100V	501591V09023000
		DIVAC 1.4	100 ISO-K		501591V08000500
			100 CF		501591V09000500

Ordering information vacuum gauges and venting valve

Product Name	Part Number
THERMOVAC TTR 91 RN - DN 16 ISO-KF	21L1011100
THERMOVAC TTR 101 - DN 16 KF without SP without Display	230350V01
THERMOVAC TTR 101 - DN 16 KF without SP with Display	230354V01
PENNINGVAC PTR 90 RN - DN 25 KF	23L0021100

Ordering information mains cables

Product name	Part number
Mains cable with Euro-plug, 3 m	800102V0002
Mains cable with UK-plug, 3 m	800102V0003
Mains cable with US-plug, 3 m	800102V1002

TURBOLAB Core



Pioneering products. Passionately applied.

www.leybold.com

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