

TURBOVAC i

TURBOVAC 350 i, 450 i

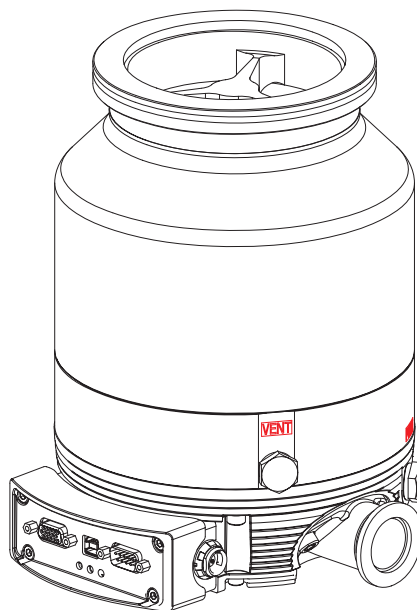
Turbomolecular Pumps with
Integrated Frequency Converters

Brief Instructions 300756608_002_C1
Supplement to 300554863

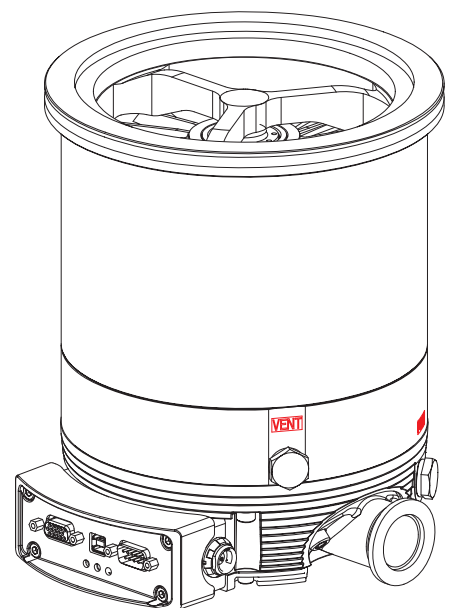
Part Nos.

830051V1001

830071V1001



TURBOVAC 350 i



TURBOVAC 450 i

NOTICE

Note the information provided in the main manual.

These Brief Instructions supplement Operating Instructions 300554863 for the TURBOVAC i(X) platform.

In particular please notice the safety instructions and warnings given in the Operating Instructions 300554863 of the TURBOVAC i(X) platform.

These Brief Instructions are the original instructions.

Description

The operating speed of the TURBOVAC 350 i and 450 i (830051V1001 and 830071V1001) is 48,000 min⁻¹.

Apart from that, the TURBOVAC 350 i and 450 i (830051V1001 and 830071V1001) are identical to the TURBOVAC 350 i and 450 i (830051V1000 and 830071V1000).

For this reason the operating instructions 300554863 apply to these pumps.

Associated publications

Publication title	Publication number	Link
TURBOVAC 90/250/350/450 i/i(X) operating instructions	300554863	https://4vac.io/gnn63l

Technical Data

TURBOVAC		350 i	450 i
High-vacuum connection	DN	100 ISO-K	160 ISO-K
Forevacuum connection	DN	25 KF	25 KF
Pumping speed for	$\text{l} \cdot \text{s}^{-1}$		
N ₂		270	370
Ar		240	340
He		300	350
H ₂		280	320
Gas throughput	$\text{mbar} \cdot \text{l} \cdot \text{s}^{-1}$		
N ₂		4.5	4.5
Ar		2.0	2.0
He		8.0	8.0
H ₂		8.0	8.0
Compression ratio			
N ₂		$1 \cdot 10^{10}$	$1 \cdot 10^{10}$
Ar		$1 \cdot 10^{10}$	$1 \cdot 10^{10}$
He		$1 \cdot 10^7$	$1 \cdot 10^7$
H ₂		$1 \cdot 10^5$	$1 \cdot 10^5$
Ultimate pressure with 2-stage oil-sealed rotary vane pump ISO-K	mbar	$< 8 \cdot 10^{-8}$	
Max. permis. forevacuum pressure for N ₂	mbar	8	
Operating speed	min^{-1}	48,000	
Speed adaptation		62 to 100 %	
Run-up time, approx.	min	3.5	
Max. power consumption	W	200	
Power consumption at ultimate pressure	W	20	
Type of protection	IP	40	