

## TOE/TOV 355



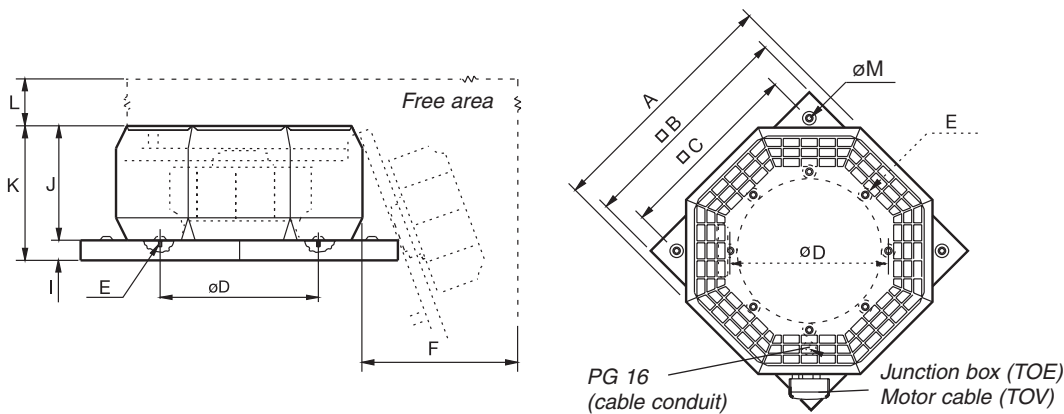
- Speed-controllable
- Integral thermal contacts
- Octagonal, low-profile casing
- Tilting mechanism on motor
- Maintenance-free and reliable
- Vertical exhaust

The TOE/TOV models have impellers with backward-curved blades and external rotor motors. The casing is manufactured in black powder-coated galvanized sheet steel. These fans have motors which can be tilted outwards to facilitate inspection and servicing.

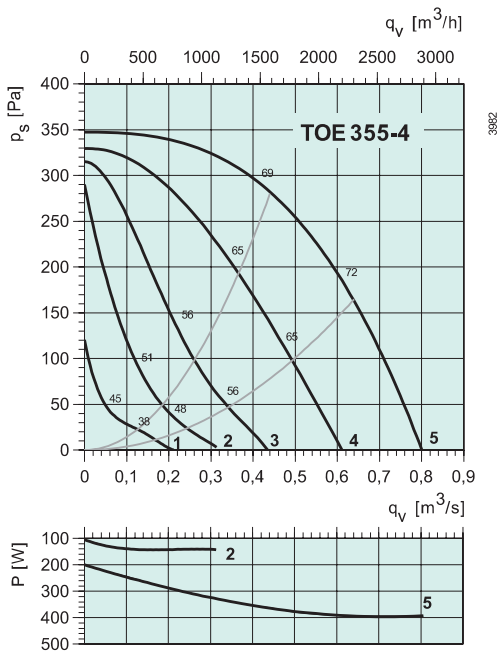
The motor is suspended on efficient vibration dampers. Exhaust air is directed vertically from the fans, which prevents problems caused by wet snow and staining of the roof.

To protect the motor from overheating, the TOE/TOV fans have integral thermal contacts with external leads for connection to a motor protection device.

		TOE 355-4	TOV 355-4	TOE 400-4	TOV 400-4
Voltage/Frequency	V/50 Hz	230	400	230	400
Phase	~	1	3	1	3
Power	W	395	397	658	718
Current	A	1,88	0,77	2,92	1,65
Maximum air flow	m <sup>3</sup> /s (m <sup>3</sup> /h)	0,81 (2915)	0,86 (3095)	1,13 (4070)	1,22 (4390)
R.p.m.	min <sup>-1</sup>	1368	1362	1301	1404
Max. temp. of transported air	°C	70	70	70	70
" when speed-controlled	°C	70	70	70	65
Sound pressure level at 10	dB(A)	42	42	43	45
Weight	kg	28	22	36	33
Insulation class, motor		F	F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54	IP 54
Capacitor	µF	8	-	14	-
Motor protection		S-ET 10	STDT 16	S-ET 10	STDT 16
Speed control, five-step	Transformer	RTRE 3	RTRD 2	RTRE 3	RTRD 2
Speed control, five-step high/low	Transformer	REU 3 + S-ET 10	RTRDU 2	REU 3 + S-ET 10	RTRDU 2
Speed control, stepless	Thyristor	REE 4 + S-ET 10	-	REE 4 + S-ET 10	-
Wiring diagram p. 11-17		6	8	6	8

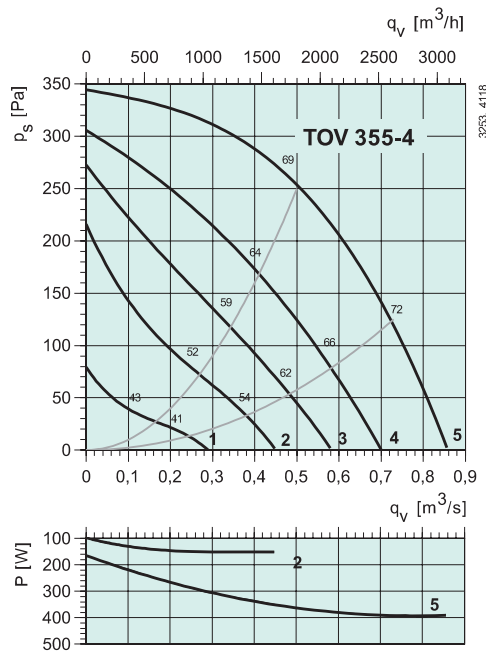


	A	B	C	øD	E	F	I	J	K	L	øM
TOE/TOV 355-4	615	557	450	395	M8(8x)	600	50	290	340	600	12(4x)
TOE/TOV 400-4	725	657	535	438	M8(6x)	700	50	315	365	700	12(4x)



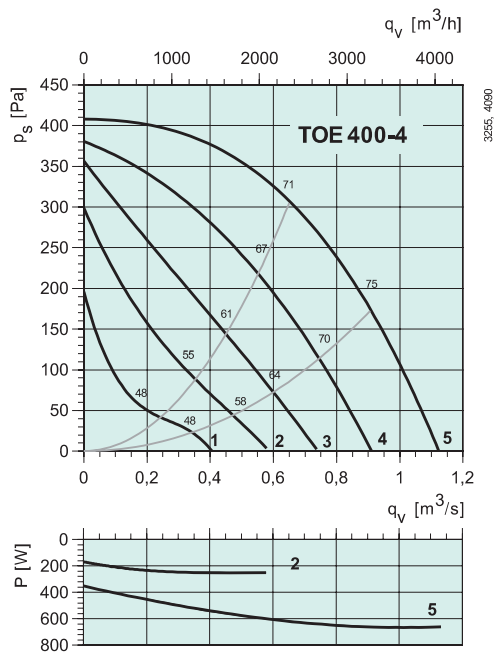
**TOE 355-4**

		Mid-frequency band, Hz									
		Hz	Tot	63	125	250	500	1k	2k	4k	8k
$L_{WA}$	Inlet	dB(A)	69	45	53	64	64	63	62	56	48
$L_{WA}$	Surrounding	dB(A)	73	48	57	64	67	67	66	57	49
<b>With TG 540-800</b>											
$L_{WA}$	Inlet	dB(A)	62	45	50	58	54	50	54	51	43
<b>With TG 540-1200</b>											
$L_{WA}$	Inlet	dB(A)	61	45	50	58	50	55	50	50	43
Measuring point: $q_v = 0,45 \text{ m}^3/\text{s}$ , $P_s = 284 \text{ Pa}$											



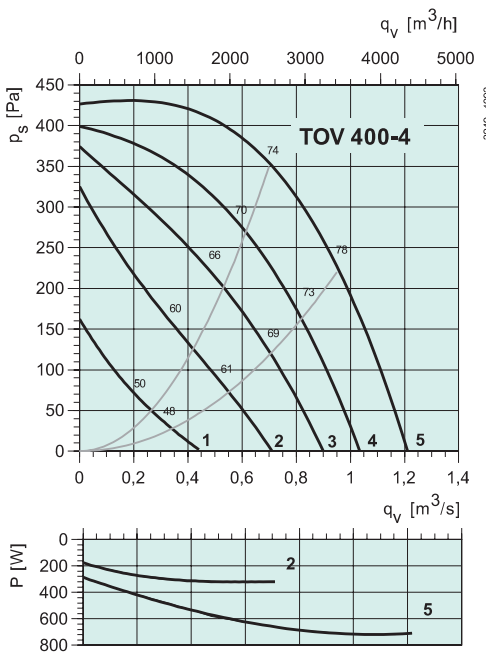
**TOV 355-4**

		Mid-frequency band, Hz									
		Tot	63	125	250	500	1k	2k	4k	8k	
$L_{WA}$	Inlet	dB(A)	69	43	55	64	64	59	60	61	53
$L_{WA}$	Surrounding	dB(A)	73	42	56	66	69	66	65	62	54
<b>With TG 540-800</b>											
$L_{WA}$	Inlet	dB(A)	62	43	52	58	55	47	52	56	48
<b>With TG 540-1200</b>											
$L_{WA}$	Inlet	dB(A)	62	43	52	58	50	52	48	55	48
Measuring point: $q_v = 0,48 \text{ m}^3/\text{s}$ , $P_s = 265 \text{ Pa}$											



**TOE 400-4**

		Mid-frequency band, Hz									
		Hz	Tot	63	125	250	500	1k	2k	4k	8k
$L_{WA}$	Inlet	dB(A)	71	44	56	65	66	61	63	63	54
$L_{WA}$	Surrounding	dB(A)	74	43	58	67	69	68	66	64	54
<b>With TG 640-800</b>											
$L_{WA}$	Inlet	dB(A)	66	41	54	61	59	54	57	59	50
<b>With TG 640-1230</b>											
$L_{WA}$	Inlet	dB(A)	64	44	52	61	54	46	55	58	49
Measuring point: $q_v = 0,64 \text{ m}^3/\text{s}$ , $P_s = 318 \text{ Pa}$											



**TOV 400-4**

		Mid-frequency band, Hz									
		Tot	63	125	250	500	1k	2k	4k	8k	
$L_{WA}$	Inlet	dB(A)	74	44	57	69	69	64	65	65	61
$L_{WA}$	Surrounding	dB(A)	76	44	59	68	71	69	68	66	57
<b>With TG 640-800</b>											
$L_{WA}$	Inlet	dB(A)	69	41	55	65	62	55	59	61	57
<b>With TG 640-1230</b>											
$L_{WA}$	Inlet	dB(A)	68	44	53	65	57	49	57	60	56
Measuring point: $q_v = 0,68 \text{ m}^3/\text{s}$ , $P_s = 370 \text{ Pa}$											



TG p. 491



BTG p. 491



S-ET/STD T p. 464



RTRE p. 454



RTRD/RTRDU p. 455



REU p. 454



REE p. 455