

IN-LINE CENTRIFUGAL DUCT FANS VT Series



DESCRIPTION

The VT series of circular in-line duct centrifugal fans consists of 14 model variations within 7 nominal model sizes of 100, 125, 150, 160, 200, 250 and 315 mm respectively.

The VT range of fans delivers airflow performances from 290 up to 1.900 m³/hr.

APPLICATIONS

The VT series of fans are ideally suited for a wide range of general residential, commercial and industrial exhaust or supply ventilation applications. Typical applications would include the following:

RESIDENTIAL – Bathrooms, toilets, utility rooms.

COMMERCIAL – Cafes, bars, offices, restaurants.

INDUSTRIAL – Spot ventilation, equipment cooling, workshop ventilation.

CONSTRUCTION

All VT fans are manufactured from high grade corrosion resistant pressed galvanised steel. All models are supplied as standard with a pre-wired wiring junction box.

All models include an enclosed type, single phase, external rotor motor with factory matched backward curved non-stalling impeller.

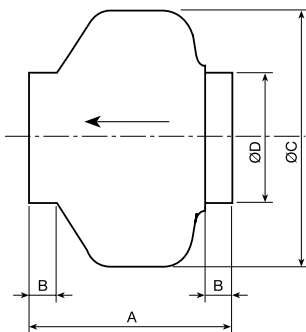
All models are fully speed controllable using either electronic or autotransformer voltage regulation controllers.

The following specifications apply:

- Single phase 230V 50Hz.
- IP44, Class B insulation.
- Operating temperatures -40° up to +40°.
- All motors include sealed for life ball bearing assemblies.
- All motors include an internal safety thermal overload protection device as standard.

TECHNICAL CHARACTERISTICS

Model Type	Nom. Speed (r.p.m.)	Maximum Absorbed Power (W)	Maximum Absorbed Current (A)	Maximum Air Volume (m ³ /h)	Sound Pressure Sevel (dB(A) at 3 m)	Max. Temperature (°C)	Weight (kg)
VT-100 S	2500	78	0,33	290	47	60	3
VT-125 S	2450	80	0,35	410	47	60	3
VT-150 S	2700	120	0,53	700	50	60	5
VT-160 S	2750	130	0,55	760	51	60	5
VT-200 S	2600	170	0,72	1.000	52	60	5
VT-250 S	2750	180	0,80	1.100	54	60	6
VT-315 S	2700	350	1,45	1.890	55	50	8



DIMENSIONS (mm)

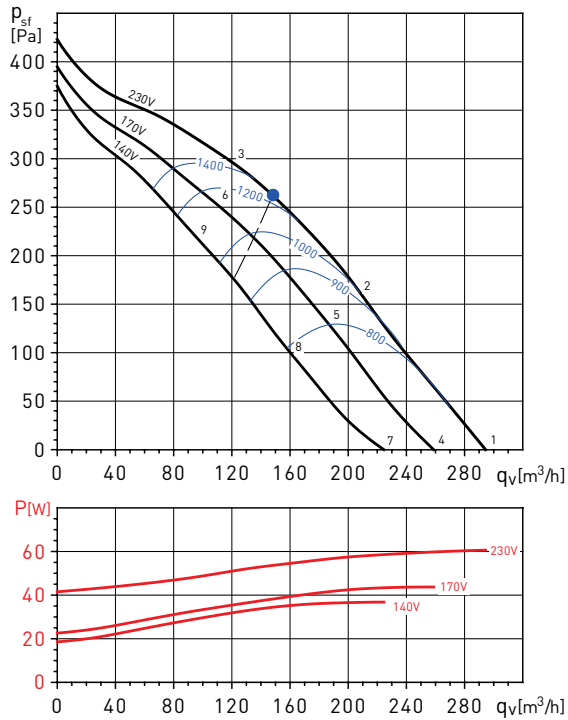
Type	A	B	C	D
VT-100 S	194	23	243	98
VT-125 S	195	27	243	123
VT-150 S	214	24	333	147
VT-160 S	222	28	333	157
VT-200 S	223	25	333	198
VT-250 S	206	27	333	248
VT-315 S	230	25	401	312



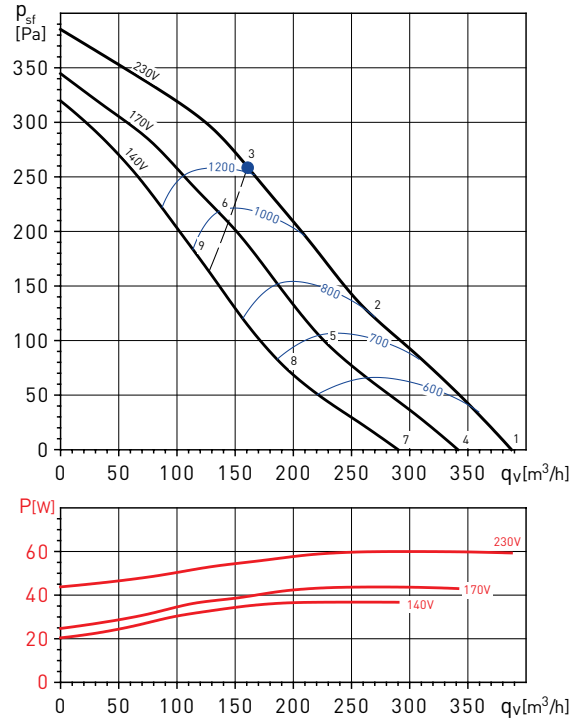
PERFORMANCE CURVES - ACOUSTIC CHARACTERISTICS

- q_v : Airflow in m^3/h .
- psf : Static pressure in Pa.
- P : Input power in W.
- SFP: Specific fan power in $W/m^3/s$ (blue curves).
- Performance data in accordance with ISO 5801.

VT-100 S



VT-125 S



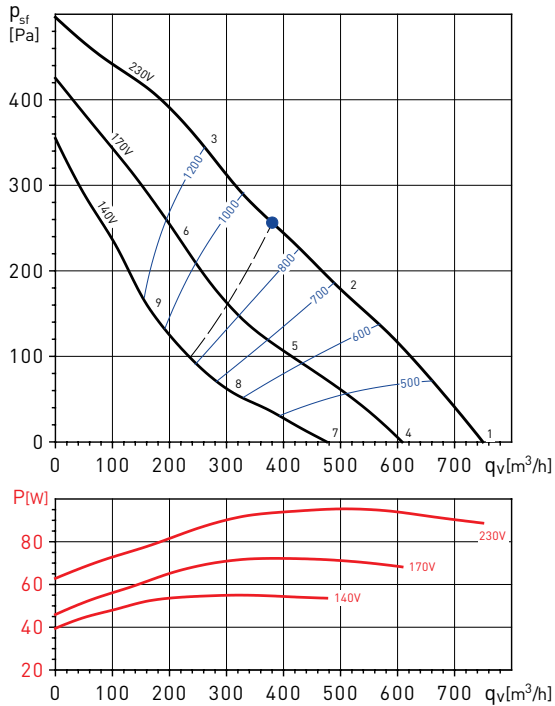
VT-100 S		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	37	46	58	62	68	64	60	46	71
	Outlet	37	45	63	58	63	61	57	46	68
	Radiated	33	38	50	50	55	49	51	37	59
2	Inlet	39	45	56	60	66	62	56	43	69
	Outlet	38	44	61	56	61	59	54	43	66
	Radiated	35	37	48	48	53	47	47	34	56
3	Inlet	37	43	53	58	65	60	53	42	67
	Outlet	37	43	57	56	60	57	52	42	64
	Radiated	33	35	45	46	52	45	44	33	55
4	Inlet	35	43	55	59	65	61	56	41	68
	Outlet	35	42	60	55	60	58	53	41	65
	Radiated	31	35	47	47	52	46	47	32	55
5	Inlet	36	42	54	57	63	60	52	39	66
	Outlet	36	42	59	53	58	56	50	39	63
	Radiated	32	34	46	45	50	45	43	30	54
6	Inlet	34	40	52	56	63	58	50	39	65
	Outlet	35	41	56	53	58	55	49	40	62
	Radiated	30	32	44	44	50	43	41	30	53
7	Inlet	32	39	51	55	60	57	49	34	63
	Outlet	31	39	56	50	55	53	46	34	60
	Radiated	28	31	43	43	47	42	40	25	51
8	Inlet	32	38	49	53	59	55	45	32	62
	Outlet	32	39	54	49	54	51	44	32	59
	Radiated	28	30	41	41	46	40	36	23	49
9	Inlet	32	37	49	52	61	55	46	35	63
	Outlet	32	39	54	50	56	52	45	35	60
	Radiated	28	29	41	40	48	40	37	26	50

VT-125 S		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	33	42	54	64	67	66	62	49	71
	Outlet	33	43	61	62	63	62	59	47	69
	Radiated	20	34	49	45	53	49	50	37	57
2	Inlet	34	42	53	64	66	64	58	47	70
	Outlet	34	43	59	62	62	60	56	45	67
	Radiated	21	34	48	45	52	47	46	35	55
3	Inlet	35	43	53	64	65	61	54	43	69
	Outlet	35	44	60	62	61	58	53	44	67
	Radiated	22	35	48	45	51	44	42	31	54
4	Inlet	31	40	52	62	65	64	60	47	69
	Outlet	31	41	59	60	61	60	57	45	66
	Radiated	18	32	47	43	51	47	48	35	55
5	Inlet	32	40	51	62	64	62	56	45	67
	Outlet	31	40	56	59	59	57	53	42	65
	Radiated	19	32	46	43	50	45	44	33	53
6	Inlet	33	41	51	62	63	59	52	41	67
	Outlet	33	42	58	60	59	56	51	42	65
	Radiated	20	33	46	43	49	42	40	29	53
7	Inlet	27	36	48	58	61	60	56	43	66
	Outlet	27	37	55	56	57	56	53	41	63
	Radiated	14	28	43	39	47	43	44	31	51
8	Inlet	28	36	47	58	60	58	52	41	64
	Outlet	28	37	53	56	56	54	50	39	61
	Radiated	15	28	42	39	46	41	40	29	49
9	Inlet	31	39	49	60	61	57	50	39	65
	Outlet	31	40	56	58	57	54	49	40	63
	Radiated	18	31	44	41	47	40	38	27	50

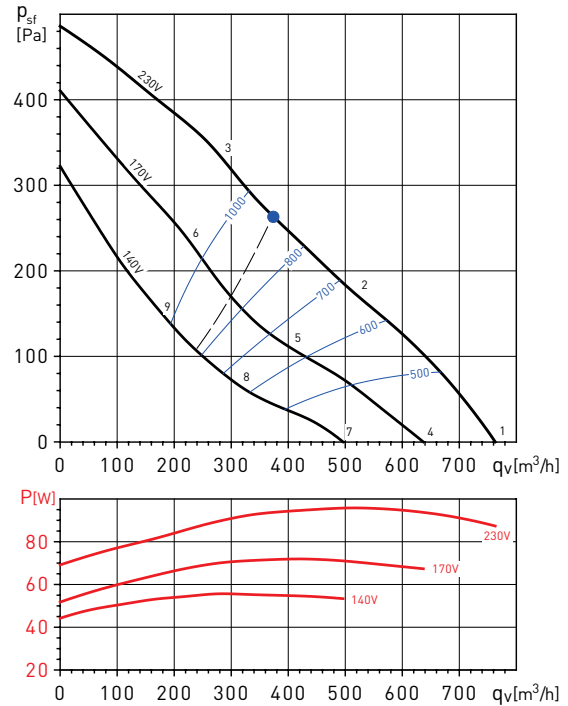
PERFORMANCE CURVES - ACOUSTIC CHARACTERISTICS

- q_v : Airflow in m^3/h .
- ps_f : Static pressure in Pa.
- P : Input power in W.
- SFP: Specific fan power in $W/m^3/s$ (blue curves).
- Performance data in accordance with ISO 5801.

VT-150 S



VT-160 S



VT-150 S		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	37	45	58	69	68	67	63	51	73
	Outlet	37	48	62	63	64	64	61	51	70
	Radiated	21	37	45	49	50	51	49	37	56
2	Inlet	35	44	58	68	67	65	60	48	72
	Outlet	35	47	59	62	63	63	58	48	69
	Radiated	19	36	45	48	49	49	46	34	55
3	Inlet	37	48	60	68	66	65	57	47	72
	Outlet	36	49	61	61	62	61	55	46	68
	Radiated	21	40	47	48	48	49	43	33	55
4	Inlet	33	41	54	65	64	63	59	47	70
	Outlet	33	44	58	59	60	60	57	47	66
	Radiated	17	33	41	45	46	47	45	33	52
5	Inlet	30	39	53	63	62	60	55	43	67
	Outlet	30	42	54	57	58	58	53	43	64
	Radiated	14	31	40	43	44	44	41	29	50
6	Inlet	33	44	56	64	62	61	53	43	68
	Outlet	33	46	58	58	59	58	52	43	64
	Radiated	17	36	43	44	44	45	39	29	51
7	Inlet	28	36	49	60	59	58	54	42	64
	Outlet	28	39	53	54	55	55	52	42	61
	Radiated	12	28	36	40	41	42	40	28	47
8	Inlet	24	33	47	57	56	54	49	37	62
	Outlet	24	36	48	51	52	52	47	37	58
	Radiated	8	25	34	37	38	38	35	23	44
9	Inlet	28	39	51	59	57	56	48	38	63
	Outlet	28	41	53	53	54	53	47	38	59
	Radiated	12	31	38	39	39	40	34	24	46

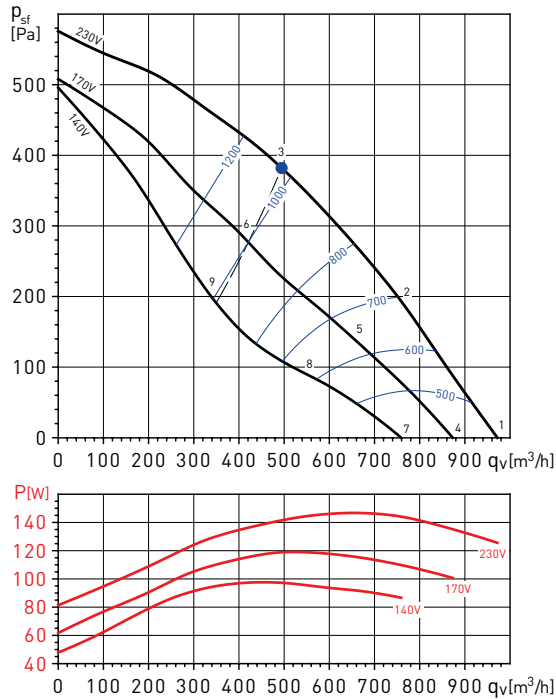
VT-160 S		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	36	45	58	68	67	67	65	53	73
	Outlet	38	47	61	62	64	64	62	52	70
	Radiated	22	37	46	50	53	52	50	41	58
2	Inlet	33	45	57	68	67	65	61	50	72
	Outlet	34	47	57	63	63	63	58	49	69
	Radiated	19	37	45	50	53	50	46	38	57
3	Inlet	37	48	58	67	65	64	57	47	71
	Outlet	37	51	62	63	63	61	55	46	69
	Radiated	23	40	46	49	51	49	42	35	55
4	Inlet	32	41	54	64	63	63	61	49	69
	Outlet	34	43	57	58	60	60	58	48	66
	Radiated	18	33	42	46	49	48	46	37	54
5	Inlet	28	40	52	63	62	60	56	45	67
	Outlet	29	42	52	58	58	58	53	44	64
	Radiated	14	32	40	45	48	45	41	33	52
6	Inlet	33	44	54	63	61	60	53	43	67
	Outlet	33	47	58	59	59	57	51	42	65
	Radiated	19	36	42	45	47	45	38	31	51
7	Inlet	27	36	49	59	58	58	56	44	64
	Outlet	29	38	52	53	55	55	53	43	61
	Radiated	13	28	37	41	44	43	41	32	49
8	Inlet	22	34	46	57	56	54	50	39	62
	Outlet	24	37	47	53	53	53	48	39	58
	Radiated	8	26	34	39	42	39	35	27	46
9	Inlet	28	39	49	58	56	55	48	38	62
	Outlet	28	42	53	54	54	52	46	37	60
	Radiated	14	31	37	40	42	40	33	26	47



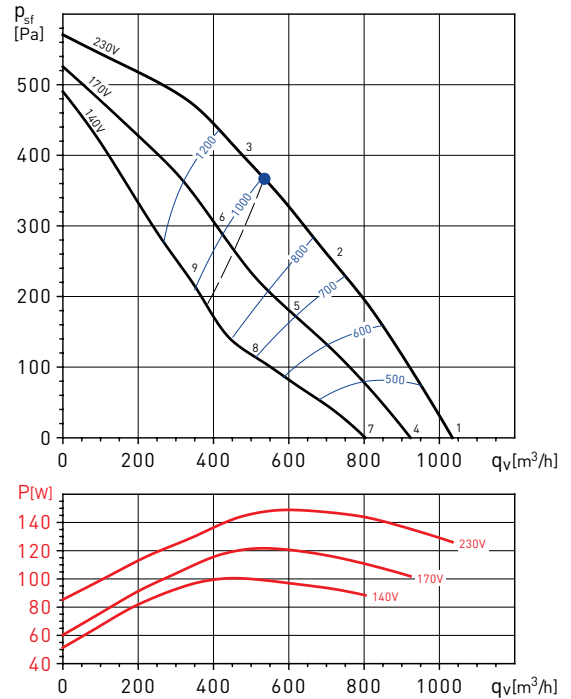
PERFORMANCE CURVES - ACOUSTIC CHARACTERISTICS

- q_v : Airflow in m^3/h .
- psf : Static pressure in Pa.
- P : Input power in W.
- SFP: Specific fan power in $W/m^3/s$ (blue curves).
- Performance data in accordance with ISO 5801.

VT-200 S



VT-250 S



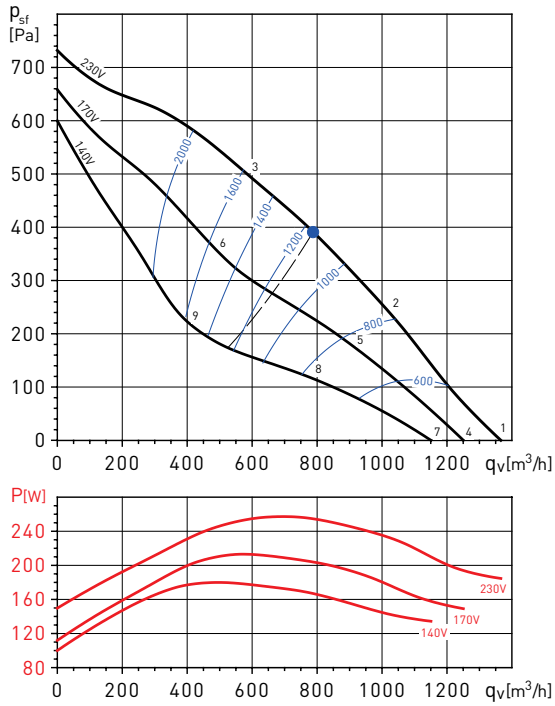
VT-200 S		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	38	48	63	67	70	68	65	63	75
	Outlet	37	47	61	63	67	67	65	62	73
	Radiated	36	39	44	38	48	52	54	48	58
2	Inlet	36	46	62	64	67	64	61	55	71
	Outlet	37	46	62	61	63	63	61	54	69
	Radiated	34	37	43	35	45	48	50	40	54
3	Inlet	37	46	60	63	65	62	57	50	69
	Outlet	35	46	61	59	62	62	58	50	68
	Radiated	35	37	41	34	43	46	46	35	51
4	Inlet	36	46	61	65	68	66	63	61	73
	Outlet	36	46	60	62	66	66	64	61	71
	Radiated	34	37	42	36	46	50	52	46	56
5	Inlet	33	43	59	61	64	61	58	52	68
	Outlet	34	43	59	58	60	60	58	51	66
	Radiated	31	34	40	32	42	45	47	37	51
6	Inlet	34	43	57	60	62	59	54	47	67
	Outlet	32	43	58	56	59	59	55	47	65
	Radiated	32	34	38	31	40	43	43	32	48
7	Inlet	33	43	58	62	65	63	60	58	70
	Outlet	32	42	56	58	62	62	60	57	68
	Radiated	31	34	39	33	43	47	49	43	53
8	Inlet	29	39	55	57	60	57	54	48	64
	Outlet	30	39	55	54	56	56	54	47	62
	Radiated	27	30	36	28	38	41	43	33	47
9	Inlet	30	39	53	56	58	55	50	43	63
	Outlet	28	39	54	52	55	55	51	43	61
	Radiated	28	30	34	27	36	39	39	28	44

VT-250 S		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	37	48	65	68	72	70	68	65	77
	Outlet	40	51	66	67	69	69	69	66	76
	Radiated	22	39	49	50	58	59	59	56	64
2	Inlet	36	46	63	64	68	66	66	59	73
	Outlet	39	49	63	63	65	64	66	59	72
	Radiated	21	37	47	46	54	55	57	50	61
3	Inlet	35	43	61	61	66	63	62	54	70
	Outlet	37	46	62	62	65	64	62	55	70
	Radiated	20	34	45	43	52	52	53	45	58
4	Inlet	35	46	63	66	70	68	66	63	74
	Outlet	38	49	64	65	67	67	67	64	74
	Radiated	20	37	47	48	56	57	57	54	62
5	Inlet	33	43	60	61	65	63	63	56	70
	Outlet	36	46	60	60	62	61	63	56	68
	Radiated	18	34	44	43	51	52	54	47	58
6	Inlet	32	40	58	58	63	60	59	51	67
	Outlet	34	43	59	59	62	61	59	52	67
	Radiated	17	31	42	40	49	49	50	42	55
7	Inlet	32	43	60	63	67	65	63	60	72
	Outlet	35	46	61	62	64	64	64	61	71
	Radiated	17	34	44	45	53	54	54	51	60
8	Inlet	28	38	55	56	60	58	58	51	65
	Outlet	31	41	55	55	57	56	58	51	64
	Radiated	13	29	39	38	46	47	49	42	53
9	Inlet	28	36	54	54	59	56	55	47	63
	Outlet	30	39	55	55	58	57	55	48	64
	Radiated	13	27	38	36	45	45	46	38	51

PERFORMANCE CURVES - ACOUSTIC CHARACTERISTICS

- q_v : Airflow in m^3/h .
- p_{sf} : Static pressure in Pa.
- P : Input power in W.
- SFP: Specific fan power in $W/m^3/s$ (blue curves).
- Performance data in accordance with ISO 5801.

VT-315 S



VT-315 S		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	39	53	67	73	76	71	68	67	79
	Outlet	48	54	69	71	75	74	70	70	80
	Radiated	29	33	45	51	58	57	55	54	63
2	Inlet	38	55	67	73	73	69	67	63	78
	Outlet	49	55	70	71	74	72	69	64	79
	Radiated	28	35	45	51	55	55	54	50	61
3	Inlet	42	64	71	73	74	70	67	60	79
	Outlet	50	64	74	71	74	72	68	62	80
	Radiated	32	44	49	51	56	56	54	47	61
4	Inlet	38	52	66	72	75	70	67	66	78
	Outlet	47	53	68	70	74	73	69	69	79
	Radiated	28	32	44	50	57	56	54	53	61
5	Inlet	36	53	65	71	71	67	65	61	75
	Outlet	46	52	67	68	71	69	66	61	76
	Radiated	26	33	43	49	53	53	52	48	58
6	Inlet	39	61	68	70	71	67	64	57	76
	Outlet	47	61	71	68	71	69	65	59	76
	Radiated	29	41	46	48	53	53	51	44	58
7	Inlet	36	50	64	70	73	68	65	64	76
	Outlet	45	51	66	68	72	71	67	67	77
	Radiated	26	30	42	48	55	54	52	51	59
8	Inlet	31	48	60	66	66	62	60	56	71
	Outlet	42	48	63	64	67	65	62	57	72
	Radiated	21	28	38	44	48	48	47	43	54
9	Inlet	34	56	63	65	66	62	59	52	71
	Outlet	42	56	66	63	66	64	60	54	72
	Radiated	24	36	41	43	48	48	46	39	53