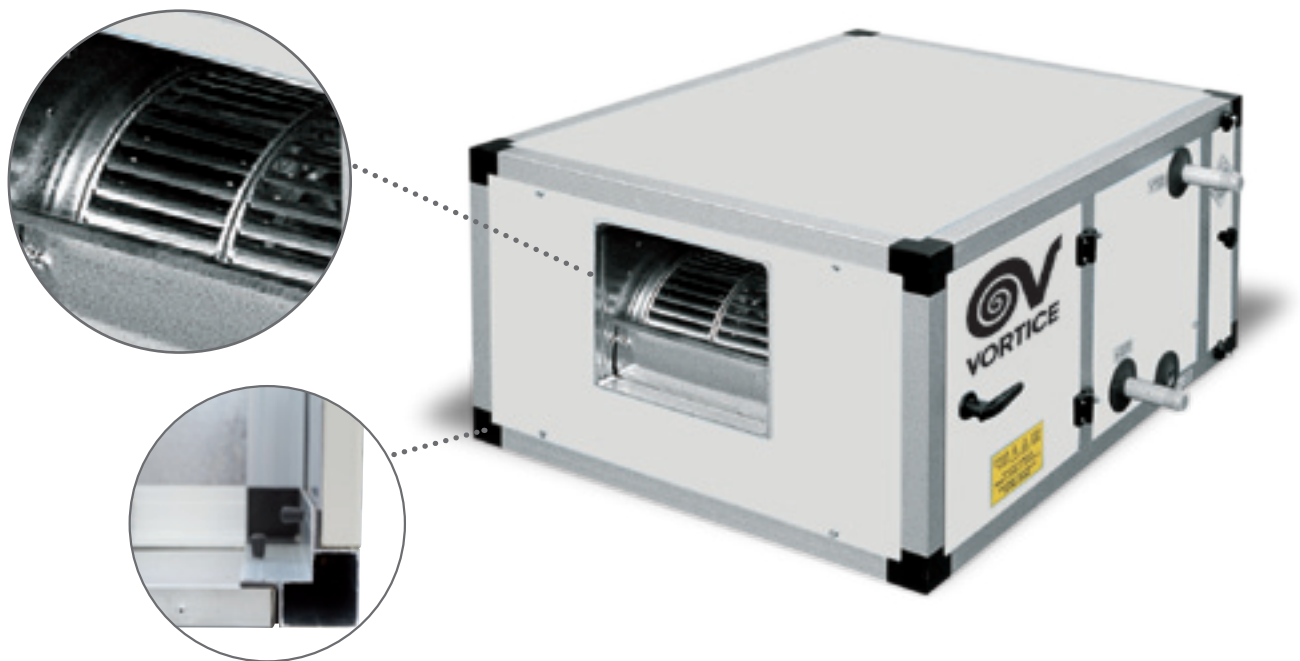


TVL-DD

Directly coupled thermoventilating units horizontal and vertical execution + accessories



PRODUCT SPECIFICATIONS

- The TVL-DD fan coils stand out for their operating versatility in different environments. They feature compact dimensions, with excellent air flow and thermal performance and low noise.
- Ideal for small or medium-sized environments such as: offices, agencies, homes and shops, offering extremely simple installation even in restricted spaces.
- This series uses centrifugal fans directly coupled to single-phase three-speed motors, covering a range of flow-rates from 1000 m³/h to 4000 m³/h.



KEY FEATURES

- **Frame**, made using a modular system of extruded anodised aluminium alloy section bars (in accordance with UNI 9006/1), joined by die-cast aluminium corners, sandwich panels, insulated using polyurethane foam, density 40 kg/m³, 23 mm thick.
- **Outside panel** made from coated sheet metal, 6/10 thickness, inside panel made from galvanised sheet metal, 6/10 thickness.
- **G4 filter**, synthetic filtering media, weighted average efficiency $\geq 90\%$ with galvanised frame and retaining mesh.
- **Heat exchange coils** suitable for cooling and heating operation (according to the number of rows R installed) made from 5/8" copper tube with aluminium fins and turbulators.
- **Electric coils** with finned tubular air heaters, one or more stages.
- **Condensate collection basin** made from galvanised sheet metal complete with front drain and welded hose fitting.
- **Double suction centrifugal fans** with forward curved blades, complete with 4-pole, external rotor motor.

Warning: Maximum operating temperature between -20°C and +40°C.

TECHNICAL DATA

MODEL	TVL-DD	10	15	20	30	40
Air flow rate (maximum speed)	m³/h	1000	1500	2000	3000	4000
Static pressure (1)	Pa	230	365	340	365	340
Sound pressure level (2)	dB(A)	59	62	64	62	64

FAN	TVL-DD	10	15	20	30	40
Power input	W	184	350	350	2x350	2x350
Max absorbed current	A	1,7	3,1	3	2x3,1	2x3
N. of fans	n°	1	1	1	2	2
Fan speeds	n°	3	3	3	3	3
Poles	n°	4	4	4	4	4
Enclosure protection	IP	55	55	55	55	55
Insulation class		B	F	F	F	F
Electrical supply	V / ph / Hz	230 / 1 / 50				

FILTER	TVL-DD	10	15	20	30	40
Efficiency		G4	G4	G4	G4	G4
Crossing speed	m/s	1,11	1,67	2,22	2,08	2,22
Average pressure drop	Pa	25	45	60	55	60

2R hot water coil	TVL-DD	10	15	20	30	40
Heating capacity (3)	kW	8,1	10,3	12,2	17,4	27,8
Supply air temperature	°C	35,9	32,5	30	29,2	32,6
Water flow	dm³/h	707	906	1069	1520	2451
Water pressure drop	kPa	1,6	2,6	3,5	2,8	7,6
Air pressure drop	Pa	8	14	21	24	26
Connection diameter	Gas	3/4"	3/4"	3/4"	3/4"	3/4"

4R hot water coil	TVL-DD	10	15	20	30	40
Heating capacity (3)	kW	14,8	20	24,5	35,6	55
Supply air temperature	°C	55,9	51,6	48,4	47,2	52,8
Water flow	dm³/h	1296	1755	2147	3120	4848
Water pressure drop	kPa	3,5	6,1	9	9	5,7
Air pressure drop	Pa	15	28	42	49	53
Connection diameter	Gas	3/4"	3/4"	3/4"	3/4"	1"

4R cold water coil	TVL-DD	10	15	20	30	40
Total cooling capacity (4)	kW	8,6	11,6	13,3	19,1	23,4
Supply air temperature	°C	15,9	17,4	18,7	19,1	19,6
Sensible cooling capacity	kW	5,1	6,96	9,31	13,3	16,3
Water flow	dm³/h	1485	1995	2287	3288	4015
Water pressure drop	kPa	2,2	8,8	11,3	11,6	4,7
Air pressure drop	Pa	28	52	70	81	88
Connection diameter	Gas	3/4"	3/4"	3/4"	3/4"	1"

6R cold water coil	TVL-DD	10	15	20	30	40
Total cooling capacity (4)	kW	10,8	14,2	17	24,8	30
Supply air temperature	°C	13,6	15,2	16,2	16,5	17,3
Sensible cooling capacity	kW	6,48	8,5	10,2	14,88	21
Water flow	dm³/h	1861	2438	2926	4263	5155
Water pressure drop	kPa	5,2	8,5	11,9	16,1	5,6
Air pressure drop	Pa	43	73	112	130	140
Connection diameter	Gas	1"	1"	1"	1"	1" 1/4

Electric coil	TVL-DD	10	15	20	30	40
Heating capacity (4)	kW	5	7,5	10	15	20
Air pressure drop	Pa	6,48	8,5	10,2	14,88	21
Stages	n°	1	1	2	2	2
Power consumption	A	8,5	12,8	13,6	25,5	34
Electrical supply	V / ph / Hz	400 / 3 / 50				

(1) Referred to the fan: deduct the pressure drop of the selected components in order to get the external static pressure.

(2) Sound pressure level: data referred to 1,5 metres from inlet in free field. The actual operation noise level generally differs from the values shown in the table, depending on operating conditions, reflected noise and surrounding noise.

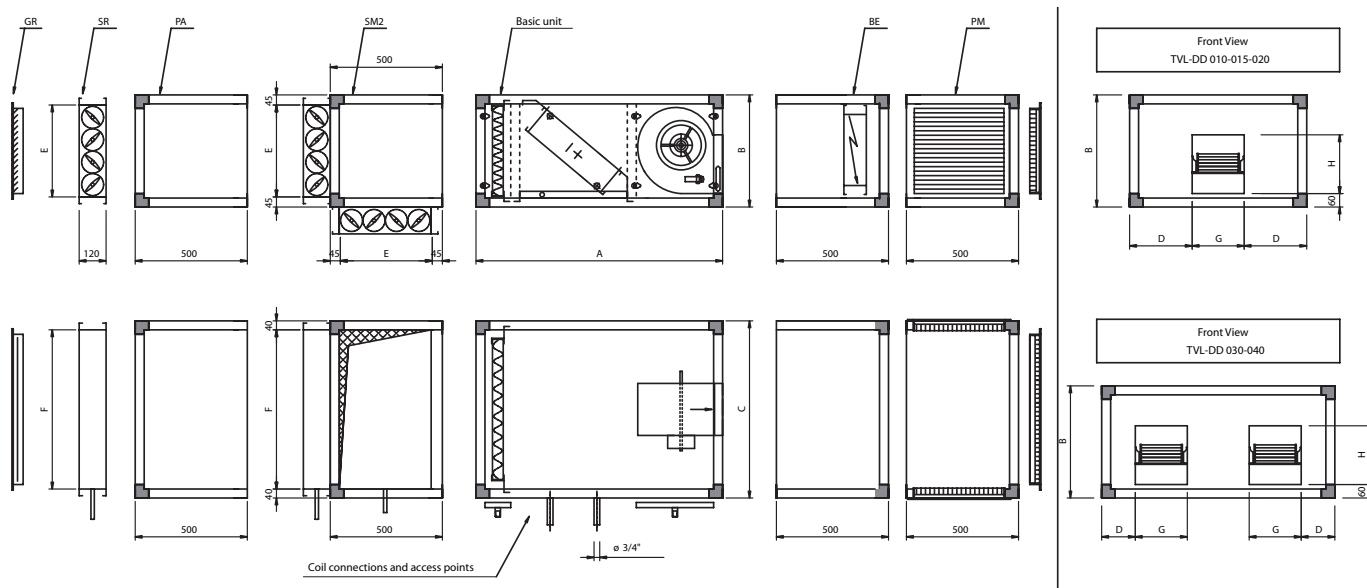
(3) Inlet air temperature 12°C, UR 0%, water temp. in/out 70/60°C. Air flow at max speed.

(4) Inlet air temperature 32°C, UR 50%, water temp. in/out 7/12°C. Air flow at max speed.

WARNING - The fans are not suitable for operation at temperatures above 40°C

POSSIBLE DIMENSIONS AND CONFIGURATION

Horizontal version



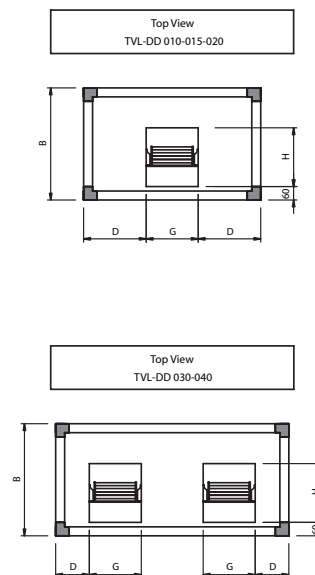
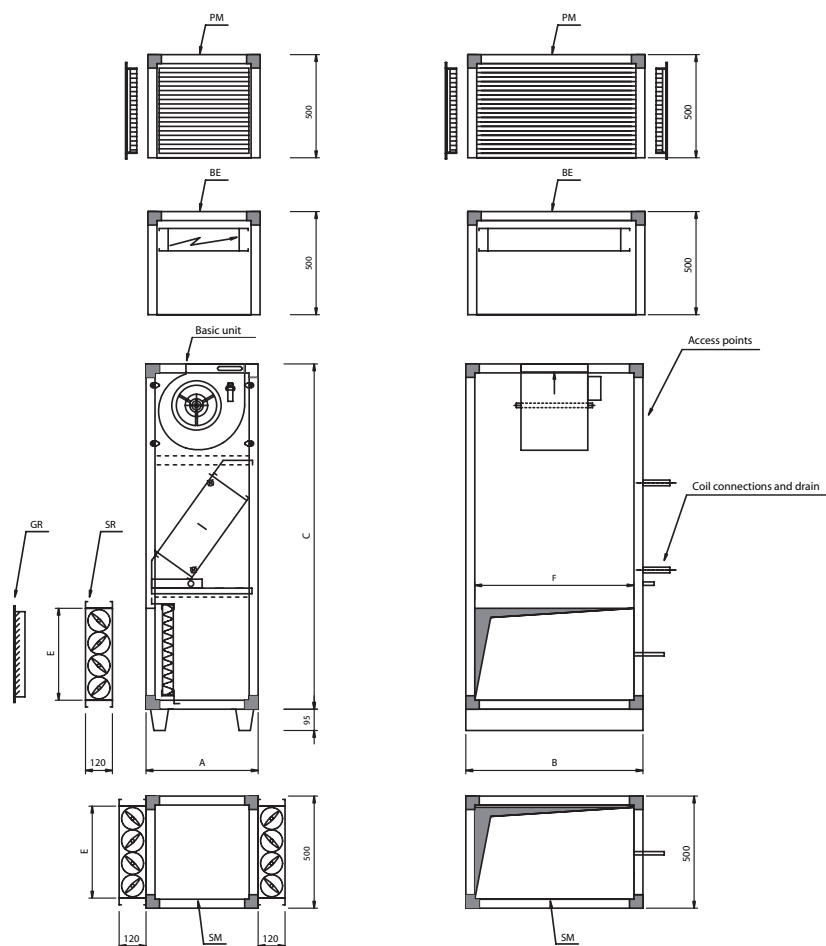
MODEL		10	15	20	30	40
A	mm	1100	1100	1100	1100	1100
B	mm	500	500	500	500	500
C	mm	790	790	790	1040	1290
D	mm	279	279	246	150	200
E	mm	410	410	410	410	410
F	mm	710	710	710	960	1210
G	mm	232	232	298	232	298
H	mm	208	262	262	262	262

AVAILABLE ACCESSORIES

- GR** Intake grille with fixed aluminium fins
- SR** Control damper with motor drive shaft
- PA** Intake plenum
- SM** Mixing chamber complete with 2 control dampers featuring motor drive shaft
- BE** Electric coil with tubular heaters, three-phase power supply
- PM** Outlet plenum complete with three outlets featuring two rows of adjustable aluminium blades
- MS** Safety micro-switch
- CP** Speed selector
- TPV** Galvanised plate rain cover for VERTICAL unit
- TPH** Galvanised plate rain cover for HORIZONTAL unit

POSSIBLE DIMENSIONS AND CONFIGURATION

Vertical version



MODEL		10	15	20	30	40
A	mm	500	500	500	500	500
B	mm	790	790	790	1040	1290
C	mm	1290	1540	1540	1540	1540
D	mm	279	279	246	150	200
E	mm	210	310	310	410	410
F	mm	710	710	710	960	1210
G	mm	232	232	298	232	298
H	mm	208	262	262	262	262



EFFICIENCY HEATING COILS

Coil performance in heating mode at rated flow with different air and water inlet temperatures.

TVL-DD 10

ROWS 2R	Air		Water 70/60°C				Water 45/40°C			
	Volume m³/h	T. in °C	T. out °C	Power kW	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	Delivery dm³/h	Δp W KPa
	1000	-10	28,7	13,0	1139	3,7	17,1	9,1	1581	7,3
	1000	-5	31,1	12,0	1062	3,3	19,5	8,3	1427	6,0
	1000	0	33,4	11,3	984	2,9	21,9	7,4	1273	4,9
	1000	5	35,8	10,4	906	2,5	24,2	6,5	1118	3,9
	1000	10	38,1	9,5	828	2,1	26,5	5,6	962	2,9
	1000	15	40,5	8,6	750	1,7	28,9	4,7	806	2,1

ROWS 4R	Air		Water 70/60°C				Water 45/40°C			
	Volume m³/h	T. in °C	T. out °C	Power kW	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	Delivery dm³/h	Δp W KPa
	1000	-10	52,5	21,1	1840	6,3	33,5	14,6	2533	12,2
	1000	-5	53,4	19,7	1719	5,6	34,4	13,3	2292	10,1
	1000	0	54,2	18,3	1596	4,9	35,2	11,9	2049	8,2
	1000	5	55,1	16,9	1473	4,2	36,0	10,4	1806	6,5
	1000	10	55,9	15,4	1350	3,6	36,9	9,0	1564	5,0
	1000	15	56,7	14,0	1227	3,0	37,6	7,6	1319	3,6

TVL-DD 15

ROWS 2R	Air		Water 70/60°C				Water 45/40°C			
	Volume m³/h	T. in °C	T. out °C	Power kW	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	Delivery dm³/h	Δp W KPa
	1500	-10	23,3	16,8	1470	6,0	13,4	11,8	2043	11,8
	1500	-5	26,0	15,7	1370	5,3	16,1	10,7	1844	9,7
	1500	0	28,8	14,5	1269	4,6	18,8	9,5	1643	7,8
	1500	5	31,5	13,4	1168	3,9	21,5	8,3	1442	6,2
	1500	10	34,2	12,2	1067	3,3	24,2	7,2	1240	4,7
	1500	15	36,9	11,0	965	2,8	26,9	6,0	1038	3,4

ROWS 4R	Air		Water 70/60°C				Water 45/40°C			
	Volume m³/h	T. in °C	T. out °C	Power kW	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	Delivery dm³/h	Δp W KPa
	1500	-10	46,7	28,7	2505	11,3	29,5	20,0	3454	21,8
	1500	-5	47,9	26,7	2337	9,9	30,7	18,1	3122	18,1
	1500	0	49,1	24,8	2169	8,6	31,9	16,1	2789	14,6
	1500	5	50,3	22,9	2000	7,4	33,1	14,2	2458	11,5
	1500	10	51,5	21,0	1832	6,3	34,3	12,3	2123	8,8
	1500	15	52,7	19,0	1663	5,3	35,5	10,3	1788	6,4

TVL-DD 20

ROWS 2R	Air		Water 70/60°C				Water 45/40°C			
	Volume m³/h	T. in °C	T. out °C	Power kW	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	Delivery dm³/h	Δp W KPa
	2000	-10	19,6	19,9	1741	8,3	10,8	14,0	2423	16,2
	2000	-5	22,6	18,6	1622	7,2	13,8	12,6	2185	13,4
	2000	0	25,5	17,2	1503	6,3	16,7	11,3	1947	10,8
	2000	5	28,5	15,8	1383	5,4	19,7	9,9	1708	8,4
	2000	10	31,4	14,4	1262	4,5	22,6	8,5	1468	6,4
	2000	15	34,4	13,1	1141	3,8	25,5	7,1	1228	4,6
ROWS 4R	Air		Water 70/60°C				Water 45/40°C			
	Volume m³/h	T. in °C	T. out °C	Power kW	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	Delivery dm³/h	Δp W KPa
	2000	-10	42,2	35,2	3073	16,6	26,4	24,5	4243	32,1
	2000	-5	43,7	32,8	2867	14,6	27,9	22,2	3835	26,6
	2000	0	45,2	30,4	2660	12,7	29,4	19,7	3424	21,5
	2000	5	46,7	28,1	2452	10,9	30,9	17,4	3014	16,9
	2000	10	48,1	25,7	2244	9,2	32,4	15,1	2602	12,8
	2000	15	49,6	23,3	2036	7,7	33,8	12,7	2190	9,3

TVL-DD 30

ROWS 2R	Air		Water 70/60°C				Water 45/40°C			
	Volume m³/h	T. in °C	T. out °C	Power kW	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	Delivery dm³/h	Δp W KPa
	3000	-10	18,2	28,4	2487	6,7	9,8	20,0	3464	13,1
	3000	-5	21,2	26,5	2316	5,9	12,9	18,1	3122	10,8
	3000	0	24,3	24,5	2144	5,1	15,9	16,1	2780	8,7
	3000	5	27,3	22,6	1971	4,3	18,9	14,1	2436	6,8
	3000	10	30,4	20,6	1798	3,7	22,0	12,1	2091	5,2
	3000	15	33,4	18,6	1624	3,0	25,0	10,1	1745	3,7
ROWS 4R	Air		Water 70/60°C				Water 45/40°C			
	Volume m³/h	T. in °C	T. out °C	Power kW	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	Delivery dm³/h	Δp W KPa
	3000	-10	40,7	51,2	4472	16,9	25,4	35,7	6179	32,7
	3000	-5	42,3	47,7	4171	14,8	26,9	32,3	5582	27,1
	3000	0	43,8	44,3	3868	12,9	28,5	28,8	4984	21,9
	3000	5	45,4	40,8	3566	11,1	30,1	25,4	4387	17,3
	3000	10	47	37,3	3264	9,4	31,7	21,9	3784	13,2
	3000	15	48,5	33,9	2959	7,8	33,2	18,4	3183	9,6

TVL-DD 40

ROWS 2R	Air		Water 70/60°C				Water 45/40°C			
	Volume m³/h	T. in °C	T. out °C	Power kW	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	Delivery dm³/h	Δp W KPa
	4000	-10	17,9	37,6	3286	12,8	9,6	26,4	4571	25,2
	4000	-5	21,0	35,0	3062	11,3	12,7	23,9	4124	20,8
	4000	0	24,1	32,5	2838	9,8	15,8	21,3	3676	16,8
	4000	5	27,2	29,9	2612	8,4	18,9	18,7	3227	13,2
	4000	10	30,3	27,3	2385	7,1	21,9	16,1	2776	10,0
	4000	15	33,3	24,7	2158	5,9	25,0	13,4	2323	7,2
ROWS 4R	Air		Water 70/60°C				Water 45/40°C			
	Volume m³/h	T. in °C	T. out °C	Power kW	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	Delivery dm³/h	Δp W KPa
	4000	-10	39,0	65,9	5762	7,6	24,3	46,1	7978	14,9
	4000	-5	40,6	61,4	5367	6,7	25,9	41,6	7196	12,3
	4000	0	42,3	56,9	4973	5,8	27,5	37,1	6415	9,9
	4000	5	43,9	52,4	4577	5,0	29,2	32,6	5632	7,8
	4000	10	45,5	47,8	4181	4,2	30,8	28,0	4847	5,9
	4000	15	47,1	43,3	3783	3,5	32,4	23,5	4060	4,2



EFFICIENCY COOLING COILS

Coil performance in cooling mode at rated flow with different air and water inlet temperatures.

TVL-DD 10

ROWS 4R	Air			Water 7/12°C					Water 8/13°C				
	Volume m³/h	T. in °C	U.R. %	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa
	1000	35	60	17,5	13,8	0,4	2376	12,1	18,2	13,1	0,4	2259	11,0
	1000	32	50	15,9	9,1	0,6	1559	5,6	16,6	8,4	0,6	1447	4,8
	1000	28	50	14,7	6,2	0,7	1060	2,7	15,3	5,6	0,8	966	2,3
	1000	26	50	14,1	5,0	0,8	850	1,8	14,7	4,5	0,8	771	1,5

ROWS 6R	Air			Water 7/12°C					Water 8/13°C				
	Volume m³/h	T. in °C	U.R. %	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa
	1000	35	60	14,9	16,3	0,4	2798	10,9	15,7	15,5	0,4	2670	10,0
	1000	32	50	13,6	10,8	0,6	1861	5,2	14,5	10,1	0,6	1733	4,5
	1000	28	50	12,7	7,58	0,7	1307	2,7	13,5	6,9	0,7	1190	2,3
	1000	26	50	12,2	6,2	0,8	1066	1,9	13,0	5,6	0,8	962	1,5

TVL-DD 15

ROWS 4R	Air			Water 7/12°C					Water 8/13°C				
	Volume m³/h	T. in °C	U.R. %	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa
	1500	35	60	17,5	13,8	0,4	2376	12,1	20,1	16,9	0,5	2901	17,4
	1500	32	50	17,4	11,6	0,6	1995	8,8	18,2	10,5	0,7	1806	7,3
	1500	28	50	15,9	7,9	0,8	1359	4,3	16,6	7,1	0,8	1220	3,5
	1500	26	50	15,1	6,4	0,9	1101	2,9	15,7	5,8	0,9	997	2,4

ROWS 6R	Air			Water 7/12°C					Water 8/13°C				
	Volume m³/h	T. in °C	U.R. %	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa
	1500	35	60	16,9	21,6	0,4	3705	18,4	17,6	20,5	0,4	3523	16,6
	1500	32	50	15,2	14,2	0,6	2438	8,5	15,9	13,3	0,6	2277	7,4
	1500	28	50	13,9	9,9	0,7	1710	4,4	14,5	9,1	0,8	1569	3,8
	1500	26	50	13,2	8,2	0,7	1408	3,1	13,8	7,5	0,8	1281	2,6

EFFICIENCY COOLING COILS

TVL-DD 20

ROWS 4R	Air			Water 7/12°C					Water 8/13°C				
	Volume m³/h	T. in °C	U.R. %	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa
	2000	35	60	20,9	21,0	0,5	3615	26,4	21,4	19,9	0,5	3423	23,7
	2000	32	50	18,7	13,3	0,7	2287	11,3	19,1	12,4	0,7	2130	9,8
	2000	28	50	16,9	9,2	0,8	1573	5,7	17,4	8,4	0,9	1446	4,8
	2000	26	50	15,9	7,6	0,9	1303	4,0	16,5	6,8	0,9	1177	3,3

ROWS 6R	Air			Water 7/12°C					Water 8/13°C				
	Volume m³/h	T. in °C	U.R. %	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa
	2000	35	60	18,3	25,9	0,4	4455	25,9	18,9	24,6	0,5	4231	23,4
	2000	32	50	16,2	17,0	0,6	2926	11,9	16,8	15,9	0,7	2728	10,4
	2000	28	50	14,7	12,0	0,8	2057	6,2	15,3	11,0	0,8	1885	5,3
	2000	26	50	13,9	9,9	0,8	1697	4,3	14,4	9,0	0,9	1547	3,6

TVL-DD 30

ROWS 4R	Air			Water 7/12°C					Water 8/13°C				
	Volume m³/h	T. in °C	U.R. %	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa
	3000	35	60	21,3	30,2	0,5	5198	26,8	21,8	28,6	0,5	4918	24,1
	3000	32	50	19,0	19,1	0,7	3288	11,6	19,5	17,8	0,7	3060	10,1
	3000	28	50	17,1	13,2	0,8	2263	5,8	17,6	12,1	0,9	2082	5,0
	3000	26	50	16,1	10,9	0,9	1877	4,2	16,8	9,9	0,9	1700	3,5

ROWS 6R	Air			Water 7/12°C					Water 8/13°C				
	Volume m³/h	T. in °C	U.R. %	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa
	3000	35	60	18,6	37,7	0,5	6480	34,9	19,2	35,8	0,5	6154	31,6
	3000	32	50	16,5	24,8	0,6	4263	16,1	17,1	23,1	0,7	3975	14,1
	3000	28	50	14,9	17,5	0,8	3005	8,5	15,4	16,0	0,8	2757	7,2
	3000	26	50	14,1	14,5	0,8	2486	6,0	14,6	13,2	0,9	2265	5,0

TVL-DD 40

ROWS 4R	Air			Water 7/12°C					Water 8/13°C				
	Volume m³/h	T. in °C	U.R. %	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa
	4000	35	60	21,9	37,5	0,5	6449	11,3	22,4	35,4	0,5	6084	10,1
	4000	32	50	19,6	23,4	0,7	4015	4,7	20,0	21,6	0,8	3722	4,1
	4000	28	50	17,7	15,9	0,9	2740	2,4	18,3	14,2	0,9	2448	1,9
	4000	26	50	16,9	13,0	0,9	2235	1,6	17,4	11,9	1,0	2053	1,4

ROWS 6R	Air			Water 7/12°C					Water 8/13°C				
	Volume m³/h	T. in °C	U.R. %	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa	T. out °C	Power kW	S/T	Delivery dm³/h	Δp W KPa
	4000	35	60	19,5	46,5	0,5	7995	12,7	20,1	44,0	0,5	7564	11,4
	4000	32	50	17,3	30,0	0,7	5155	5,6	17,9	27,6	0,7	4740	4,8
	4000	28	50	15,7	20,7	0,8	3562	2,8	16,2	19,0	0,8	3273	2,4
	4000	26	50	14,8	17,1	0,9	2932	2,0	15,3	15,6	0,9	2678	1,6



FAN PERFORMANCE

Residual pressure available at the fans at different speeds and with different coils.

TVL-DD 10

Model		Outlet fan (BAC 2R)			Outlet fan (BAC 4R)			Outlet fan (BAF 4R)			Outlet fan (BAF 6R)		
Flow-rate	Air vel.	Available static pressure (Pa)			Available static pressure (Pa)			Available static pressure (Pa)			Available static pressure (Pa)		
m³/h	m/s	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°
500	0,57	230	212	183	228	210	181	223	205	176	218	200	171
600	0,68	224	201	161	221	198	158	215	192	152	208	185	145
700	0,80	215	180	135	211	176	131	203	168	123	195	160	115
800	0,91	209	169	104	204	164	99	195	155	90	184	144	79
900	1,03	201	153	-	195	147	-	184	136	-	171	123	-
1000	1,14	196	119	-	189	112	-	176	99	-	161	84	-
1100	1,25	189	-	-	181	-	-	165	-	-	148	-	-
1200	1,37	180	-	-	170	-	-	153	-	-	133	-	-
1300	1,48	154	-	-	143	-	-	123	-	-	101	-	-

TVL-DD 15

Model		Outlet fan (BAC 2R)			Outlet fan (BAC 4R)			Outlet fan (BAF 4R)			Outlet fan (BAF 6R)		
Flow-rate	Air vel.	Available static pressure (Pa)			Available static pressure (Pa)			Available static pressure (Pa)			Available static pressure (Pa)		
m³/h	m/s	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°
900	1,03	318	308	223	312	302	217	301	291	206	288	278	193
1050	1,20	312	290	182	304	282	174	289	267	159	274	252	144
1200	1,37	322	270	-	312	260	-	295	243	-	275	223	-
1350	1,54	318	246	-	306	234	-	286	214	-	268	196	-
1500	1,71	304	-	-	290	205	-	266	181	-	245	160	-
1650	1,88	289	-	-	273	-	-	245	-	-	221	-	-
1800	2,05	262	-	-	243	-	-	212	-	-	184	-	-
1950	2,22	220	-	-	199	-	-	163	-	-	132	-	-

TVL-DD 20

Model		Outlet fan (BAC 2R)			Outlet fan (BAC 4R)			Outlet fan (BAF 4R)			Outlet fan (BAF 6R)		
Flow-rate	Air vel.	Available static pressure (Pa)			Available static pressure (Pa)			Available static pressure (Pa)			Available static pressure (Pa)		
m³/h	m/s	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°
1000	1,14	327	277	137	320	270	130	307	257	117	292	242	102
1200	1,37	290	235	-	280	225	-	263	208	-	243	188	-
1400	1,60	267	202	-	255	190	-	233	168	-	214	149	-
1600	1,82	260	195	-	244	179	-	218	153	-	195	130	-
1800	2,05	262	-	-	243	118	-	212	87	-	184	59	-
2000	2,28	257	-	-	235	-	-	208	-	-	166	-	-
2200	2,51	211	-	-	186	-	-	154	-	-	105	-	-

FAN PERFORMANCE

TVL-DD 30

Model		Outlet fan (BAC 2R)			Outlet fan (BAC 4R)			Outlet fan (BAF 4R)			Outlet fan (BAF 6R)		
Flow-rate	Air vel.	Available static pressure (Pa)			Available static pressure (Pa)			Available static pressure (Pa)			Available static pressure (Pa)		
m³/h	m/s	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°
1000	0,84	345	325	290	340	320	285	332	312	277	323	303	268
1500	1,26	308	301	223	299	292	214	284	277	199	267	260	182
2000	1,67	292	272	177	278	258	163	255	235	140	234	214	119
2500	2,09	296	238	-	277	219	-	245	187	-	216	158	-
3000	2,51	266	181	-	241	156	-	209	124	-	160	75	-
3250	2,72	243	-	-	214	84	-	178	48	-	124	-	-
3500	2,93	216	-	-	183	-	-	143	-	-	81	-	-

TVL-DD 40

Model		Outlet fan (BAC 2R)			Outlet fan (BAC 4R)			Outlet fan (BAF 4R)			Outlet fan (BAF 6R)		
Flow-rate	Air vel.	Available static pressure (Pa)			Available static pressure (Pa)			Available static pressure (Pa)			Available static pressure (Pa)		
m³/h	m/s	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°	Vel. 1°	Vel. 2°	Vel. 3°
1500	0,99	354	314	239	348	308	233	337	297	222	325	285	210
2000	1,32	315	265	125	306	256	116	290	240	100	275	225	85
2500	1,65	277	217	-	263	203	-	241	181	-	221	161	-
3000	1,98	250	185	-	232	167	-	210	145	-	176	111	-
3500	2,31	248	158	-	226	136	-	198	108	-	155	65	-
4000	2,65	234	-	-	207	-	-	172	-	-	120	-	-
4500	2,98	169	-	-	136	-	-	95	-	-	32	-	-

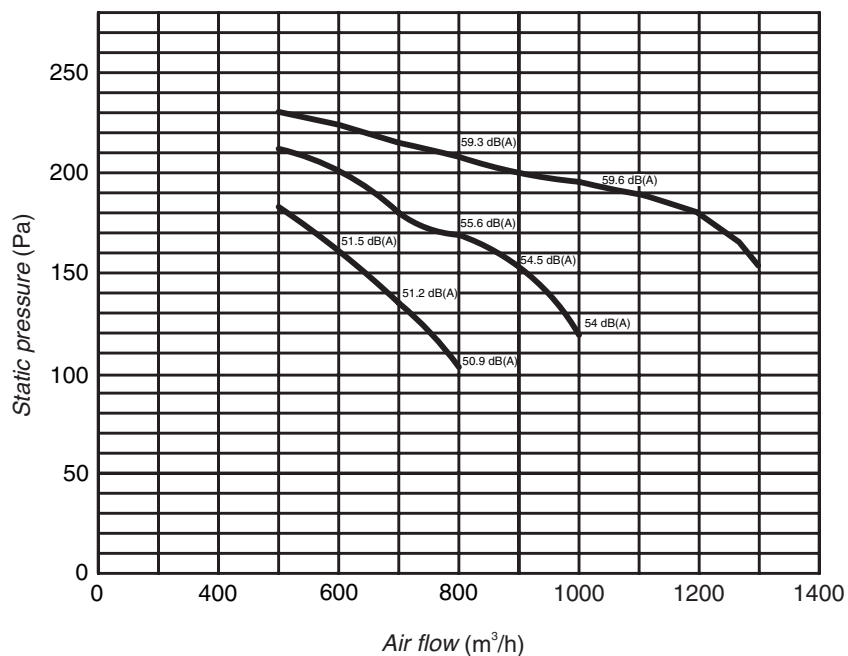
SAMPLE ORDER

MODEL	CONFIGURATION	EXCHANGER	ACCESSORIES
TVL 10 DD	H	4 COILS	MS, CP...

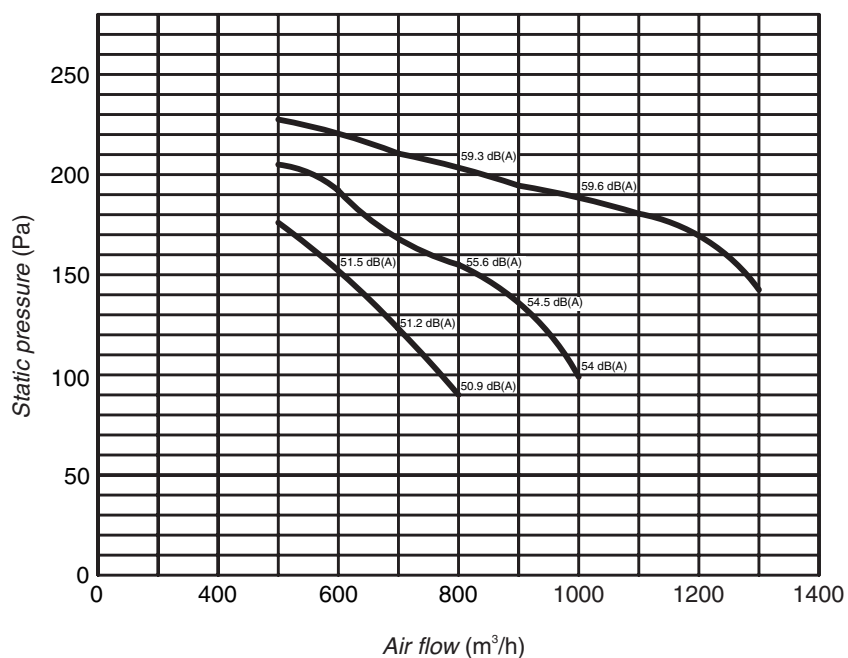


CHARACTERISTIC CURVES

TLV 10 + 2-row coil



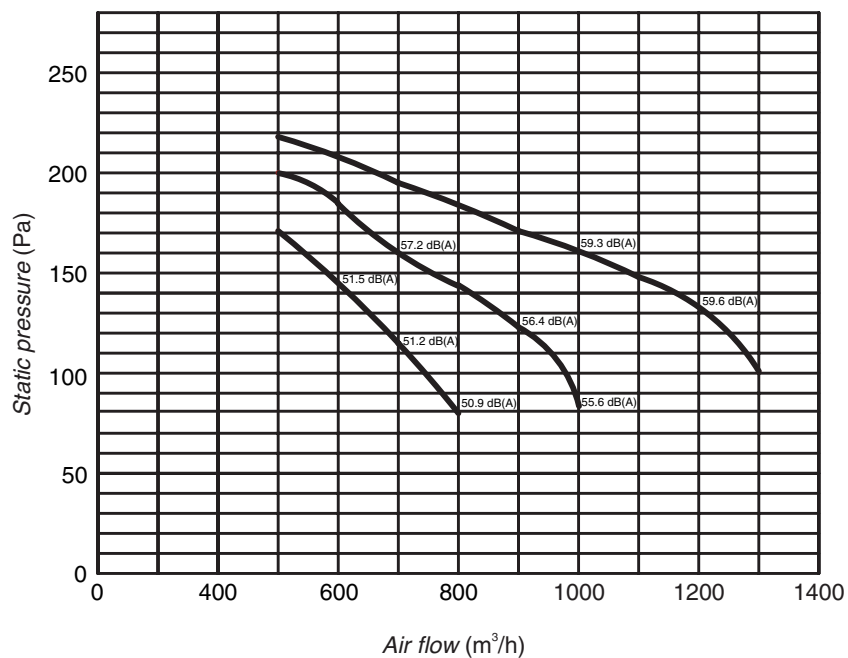
TLV 10 + 4-row coil



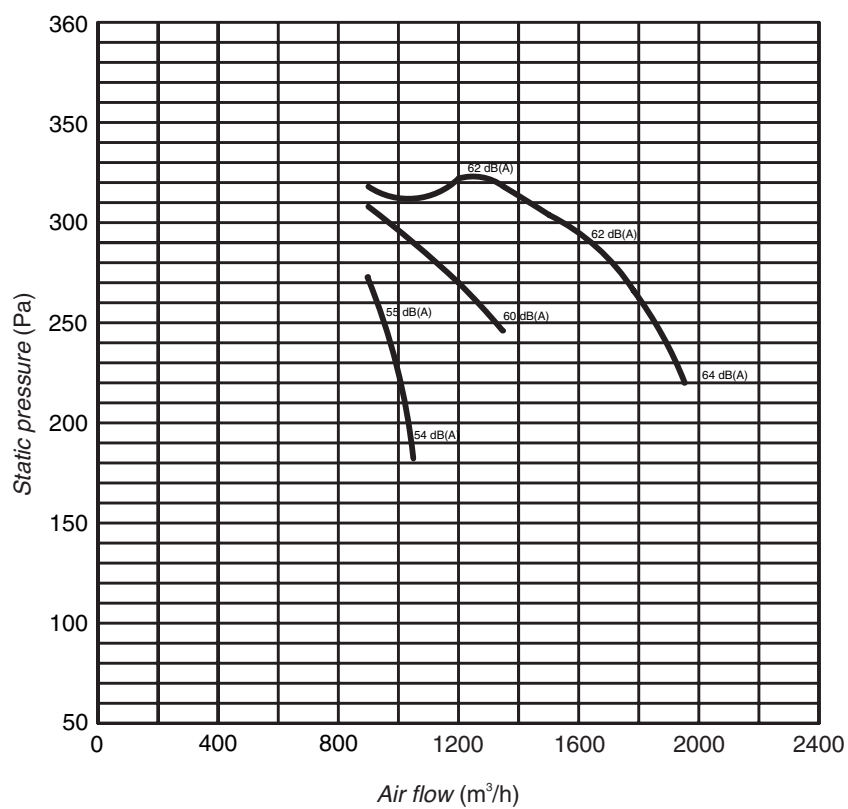
The curves take into consideration pressure drop due to the coil and the filters

CHARACTERISTIC CURVES

TLV 10 + 6-row coil



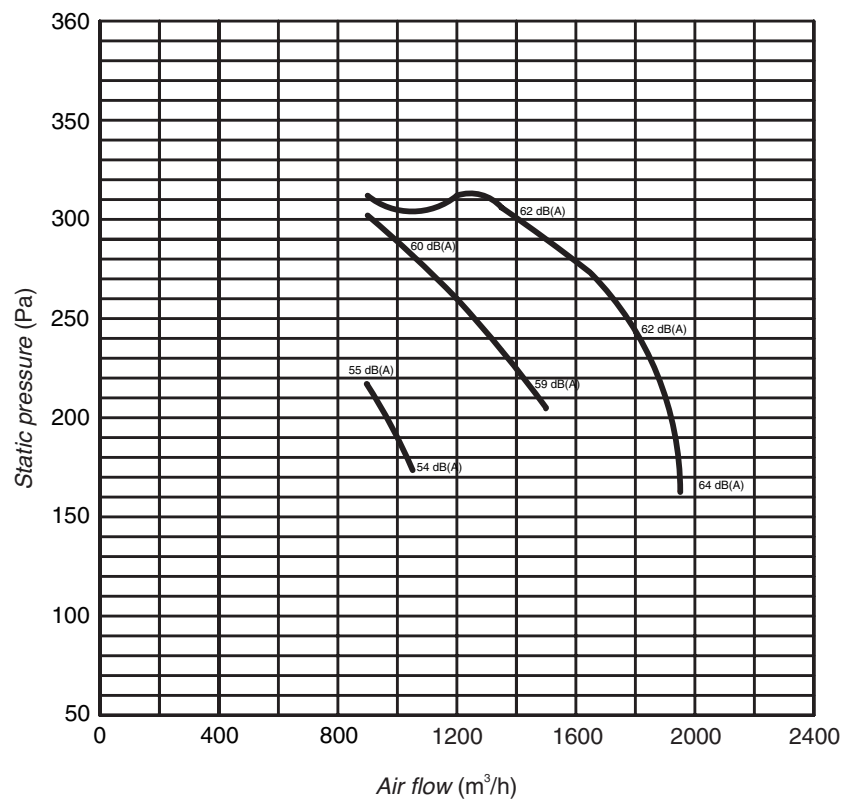
TLV 15 + 2-row coil



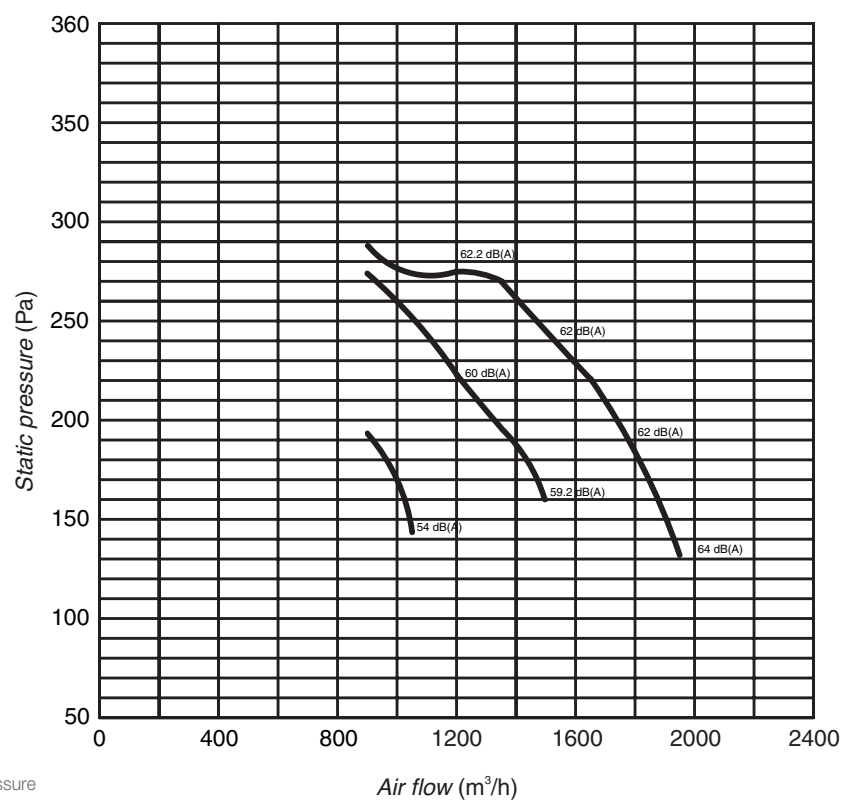
The curves take into consideration pressure drop due to the coil and the filters

CHARACTERISTIC CURVES

TLV 15 + 4-row coil



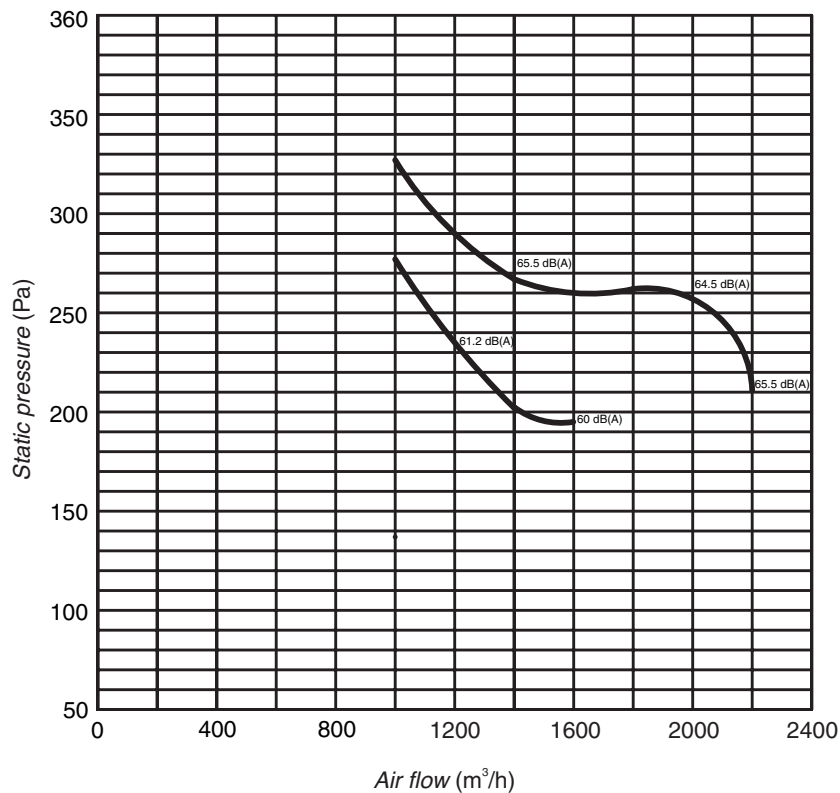
TLV 15 + 6-row coil



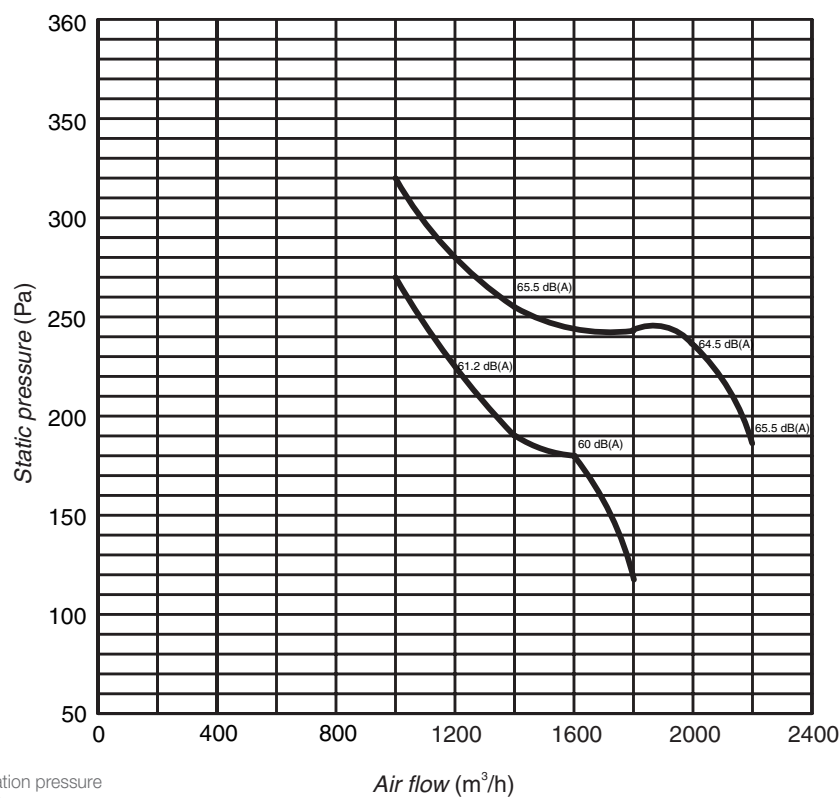
The curves take into consideration pressure drop due to the coil and the filters

CHARACTERISTIC CURVES

TLV 20 + 2-row coil



TLV 20 + 4-row coil

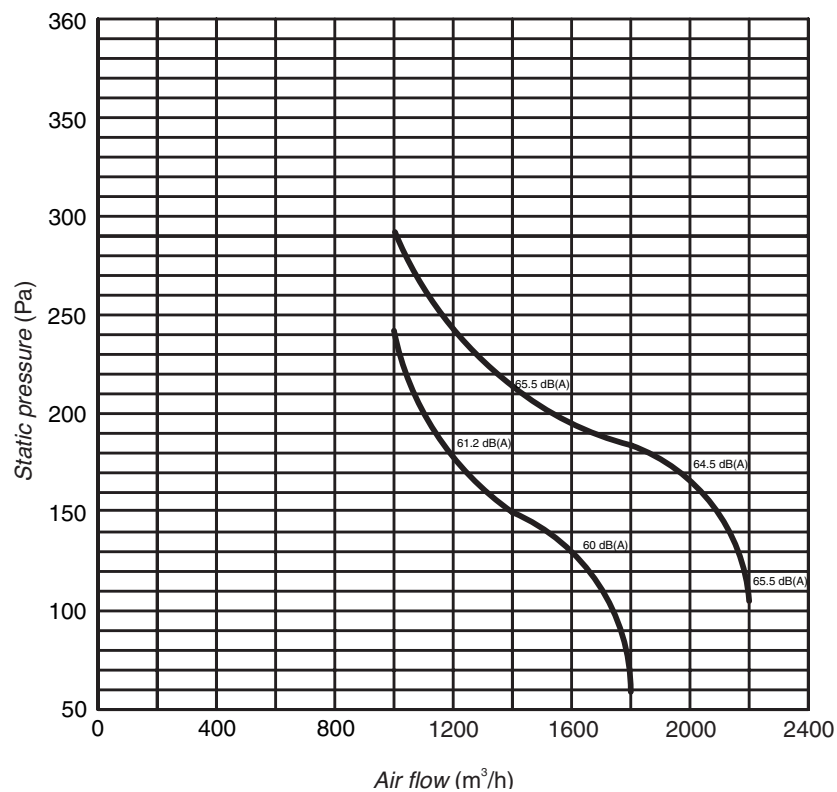


The curves take into consideration pressure drop due to the coil and the filters

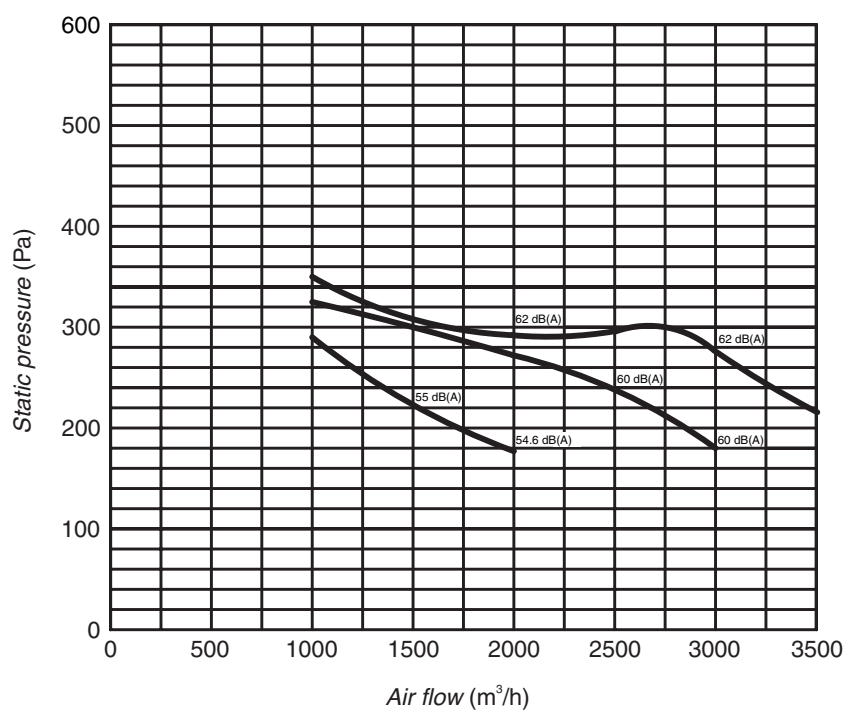


CHARACTERISTIC CURVES

TLV 20 + 6-row coil



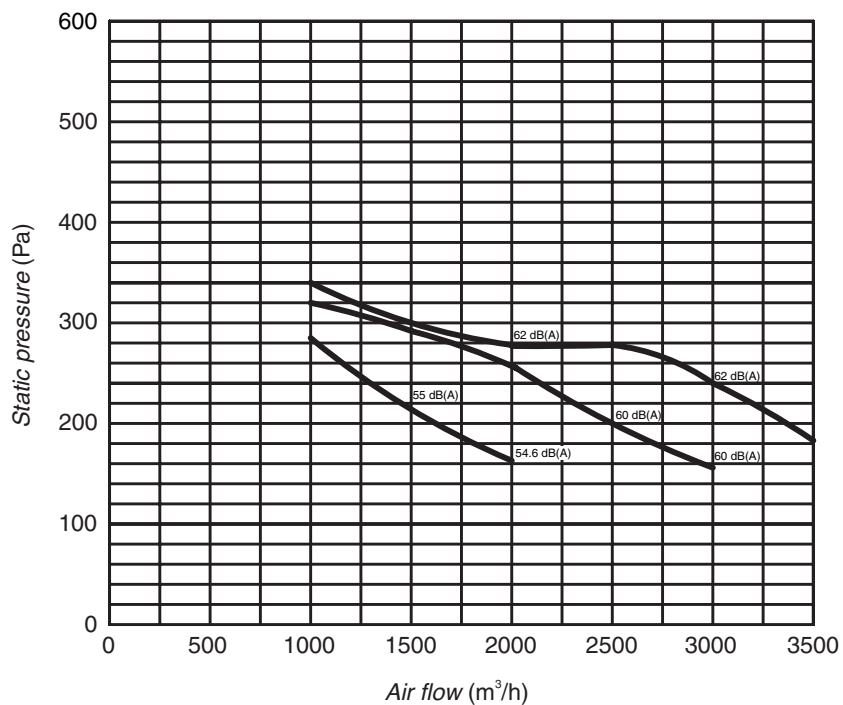
TLV 30 DD + 2-row coil



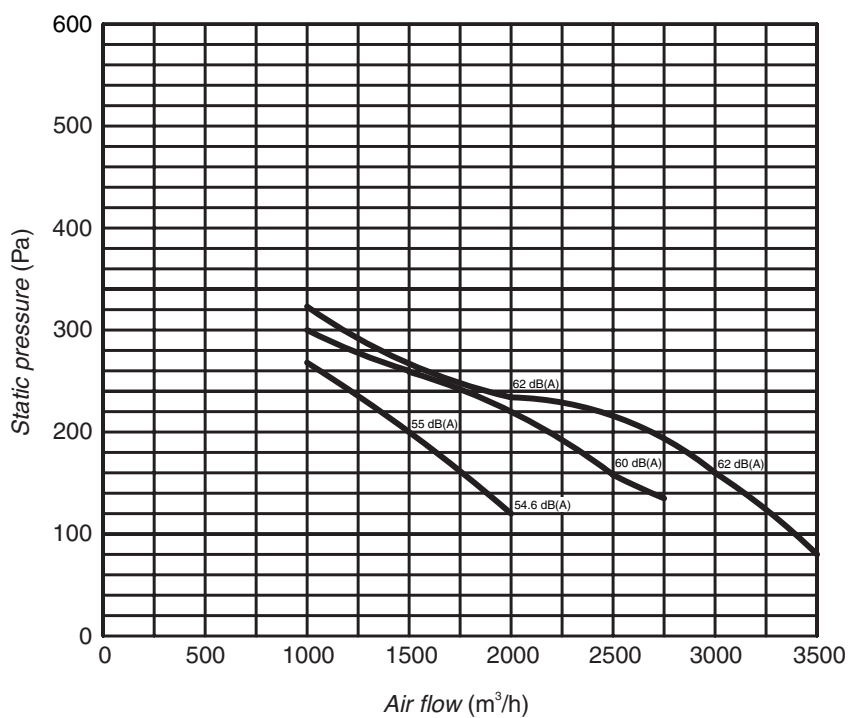
The curves take into consideration pressure drop due to the coil and the filters

CHARACTERISTIC CURVES

TLV 30 DD + 4-row coil



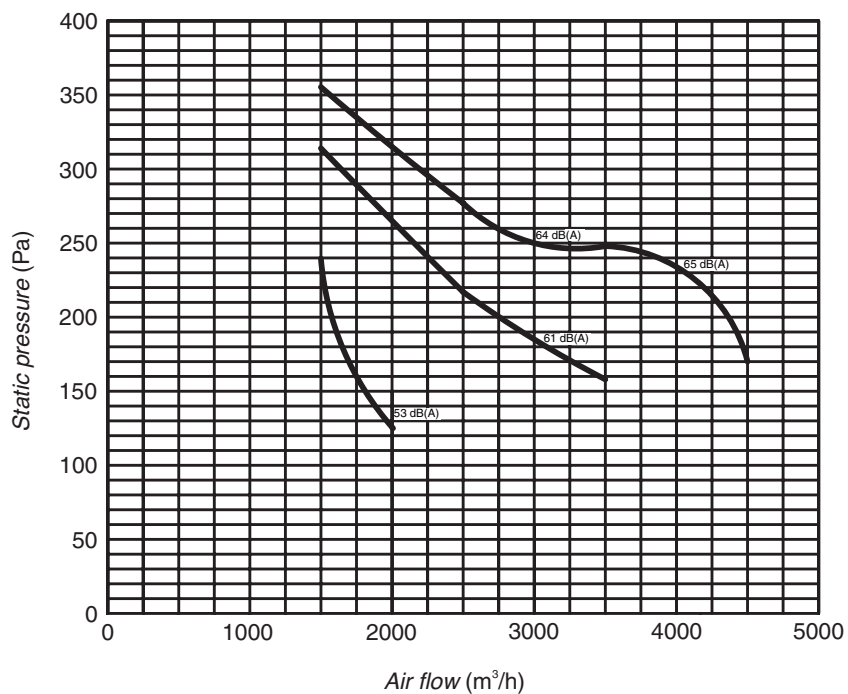
TLV 30 DD + 6-row coil



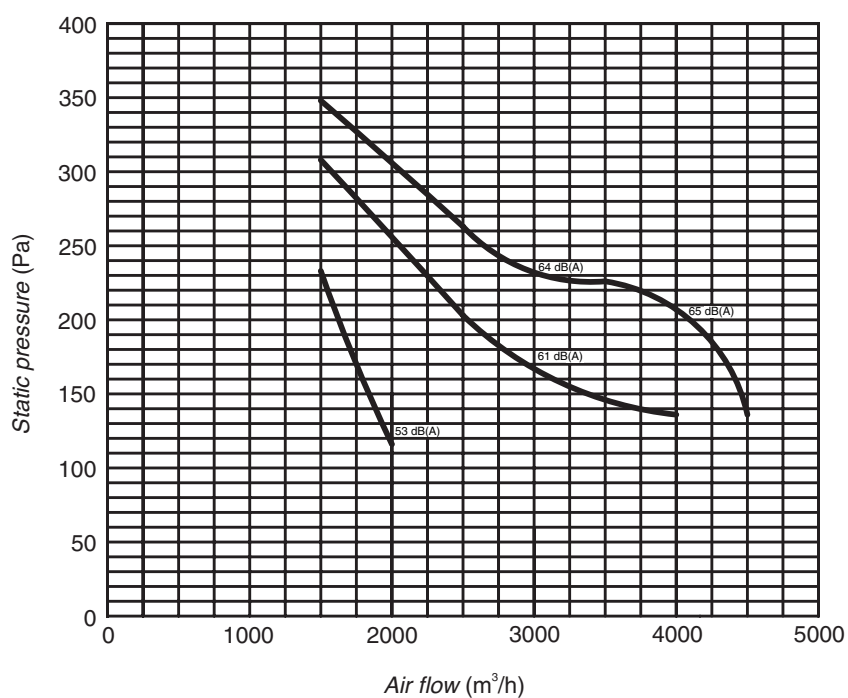
The curves take into consideration pressure drop due to the coil and the filters

CHARACTERISTIC CURVES

TLV 40 DD + 2-row coil



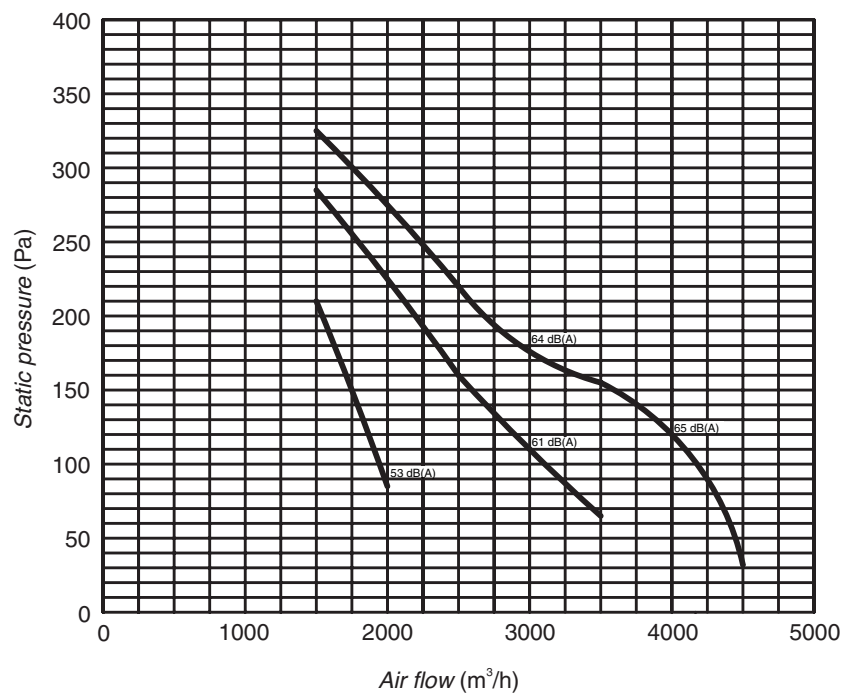
TLV 40 DD + 4-row coil



The curves take into consideration pressure drop due to the coil and the filters

CHARACTERISTIC CURVES

TLV 40 DD + 6-row coil



The curves take into consideration pressure drop due to the coil and the filters