

## GTDHRV Premium

- Non residential
- Counterflow
- R-COVERY by ZEHNDER CALADAIR
- $Q_v \leq 8000 \text{ m}^3/\text{h}$
- Horizontal
- Heat recovery unit with efficiency  $\geq 75\%$



## HRU with post heating coil $\leq 8000 \text{ m}^3/\text{h}$ type GTDHRV Premium

Heat recovery unit with high efficiency 90%. The range consists of 6 sizes and 7 types for air flows from 200 up to 8000 m<sup>3</sup>/h. Each model **GTDHRV** is equipped with 2 adjustable air flows

The **GTDHRV Premium** is an autoregulating unit (plug & play) with a post-heating watercoil or an electrical post-heater, for temperatures till -10°C

### Brand

- R-COVERY by ZEHNDER CALADAIR

### Application

- Automatic ventilation and high efficiency heat recovery of air in non residential and industrial applications
- Air filtration, temperature control
- Compact monobloc ventilation unit, with plug & play and energy-saving control system (EN 15232)

### Composition

- Structure with aluminium profiles, thermal bridge free
- Corners in reinforced polyamide
- Double skinned panels with high-density glass wool insulation 50 mm (60 kg/m<sup>3</sup>), fire class A1 (M0)
- Outer layer: prelacquered steel plate (RAL 7035) with protection sheet
- Inner layer: galvanized steel plate
- Internal elements access panel equipped with security bolt
- Corner pieces for floor or ceiling mounting
- Round connections with lip seals until the **GTDHRV 9048** and rectangular connections for the **GTDHRV 9070**
- Condensation tray and drain dia 20mm
- Built in 100% Bypass, motorised and auto regulating
- Built in regulation with front display IP65
- FREE-COOLING and NIGHT-COOLING function
- Built in temperature sensors (4)
- Built in clock for two flow rate function
- Built in week clock and public holidays
- Safety switch
- Pressostat on inlet filter **F7**
- Pressostat on each fan
- Standard Modbus or Bacnet available

**Fan**

- Single inlet centrifugal fan with back draw blades, statically and dynamically balanced G6.3 according to DIN ISO 1940
- Direct driven EC motor with thermal protection, efficiency class IE3 (Premium Efficiency)
- Fan mounted on anti-vibration blocs
- Plug fan with epoxy coating, brand Ziehl Abegg (GTDHR 9010 in galvanized steel, brand EBM Papst)
- Direct driven EC current motor with electronic commutation (EC) with high efficiency, thermal protection and integrated speed control
- The EC technology has brought together high efficient EC motors with low energetic consumption for the management, control and the supervision of the duty point (regulation from 10 to 100%)
- Low noise level for a better acoustic comfort

**Exchanger**

- Static flux counter-flow exchanger made of seawater resistant aluminium, brand Klingenburg type GS
- Efficiency 90% at -10°C/90% inlet air - +20°C/50% on exhaust air (EN308)

**Filter**

- Filters are placed directly in front of the components for optimal protection
- Mounted on sliding rails with lip seals to ensure efficient air tightness
- Basic **GTDHRV** type as one **F7** - ISO 16890 ePM1 – 55% (inlet air) and one **G4** - ISO 16890 Coarse 65% (exhaust air) filters, thickness 100 mm
- **F7** high efficiency filter: 10x higher filtration surface than a gravimetric filter and life span 2.5x longer
- Filter class **M5** - ePM 10 50% - ISO 16890

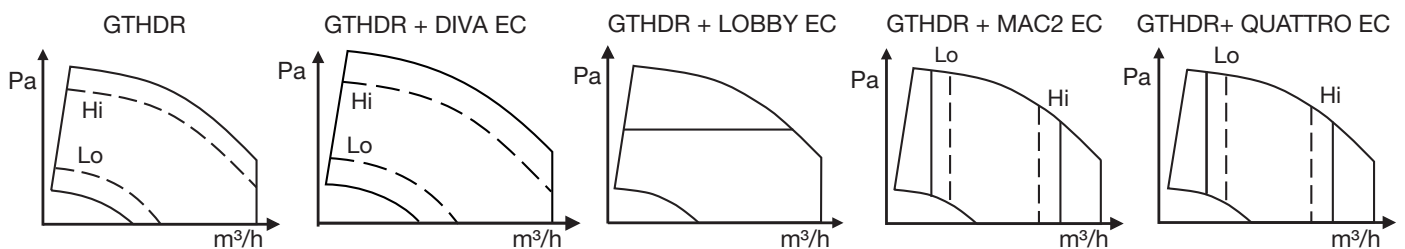
**Versions**

- **GTDHRV 90xx-PBC**: unit equipped with an integrated post-heating watercoil
- **GTDHRV 90xx-PBE**: unit equipped with an integrated electrical post-heater

**Options**

- **GTDHRV DIVA®EC\***: Proportional modulating flow (between a set min. And max. Flow) of each fan based on a built-in CO2 measurement. The CO2 content (number of ppm) is adjustable in the control.
- **GTDHRV LOBBY®EC\***: Constant pressure ventilation for each fan f.e. when used together with VAV controllers
- **GTDHRV MAC2®EC\***: Two adjustable constant airflows for each fan. (except for the GTDHR 9008)
- **GTDHRV QUATTRO®EC\***: Proportional ventilation between two constant air duties (high and low speed) for each fan (except for the GTDHR 9008) with built-in CO2 sensor in the exhaust side of the unit

\* this regulation will be integrated in the unit. It is not possible to add this regulation afterwards



**Certification**

- Efficiency of the heat exchanger of more than 90% (EN308), in accordance with RT2012 and the directive ErP 2009/125/EC
- In conformity with EUROVENT classifications according to EN1886 and EN13053
- Standard construction with double skinned panels of 50 mm
- Mechanical strength: D1
- Air tightness class: L1
- Conductivity: T3
- Thermal bridge: TB2
- Filter leakage class: F9
- Exterior panel made of steel lacquered 10/10
  - Finish RAL7035 - 25µm, gloss 40%, film 80µm
  - Primer RAL7032 - 5µm
- Inner panel made of galvanized steel 10/10<sup>e</sup>
- Insulation: high density 50 mm mineral wool, 60 kg/m³, fire class A1 (M0)
- Structure with aluminium profiles cold bridge free

### Accessories

- Airtight control valve **AKH**
- Motorizable opposite blade damper, type **MVX-RM**
- Galvanized rain canopy, type **MVX-AGC** with bird screen
- Replacement filters, type **MVX-G4** and **MVX-F7**
- Flexible sleeves, type **MTS** diameter 250 to 630 mm
- **Controllers for GTDHR/V up to serial number 225190:**
  - **E3-DSP** controller mounted on the unit as standard
  - Remote controller available as an option
    - **E3-DSP** remote display (up to 100 metres, to be provided by the installer) with 3-metre **EDSP-K3** or 10-metre **EDSP-K10** Belden cable
    - **ED Touch** digital controller for units type GTDHR/V, Hexamotion(-S), Freetime(-S), Silvertop, Neotime (First and Premium)
      - Cable 4-wire 24 Vdc (Corrigo C+/GO) of 10 rmt included
- **Controllers for GTDHR/V from serial number 225191:**
  - **Easy 5.0** controller mounted on the unit as standard
    - Master touch screen controller
  - **EDT2** remote controller available as an option
    - Touch screen controller for end user

### Other available products

- **GTDHRV First**
- **GTDHRV Infinite**

### Order example

#### GTDHRV 9023 PBCL-W

Explanation

**GTDHRV** = Type heat recovery unit

**9023** = Size **6**

**P** = Premium

**BC** = With water heater

**BE** = With electrical heater

**L** = LOBBY EC

**D** = DIVA EC

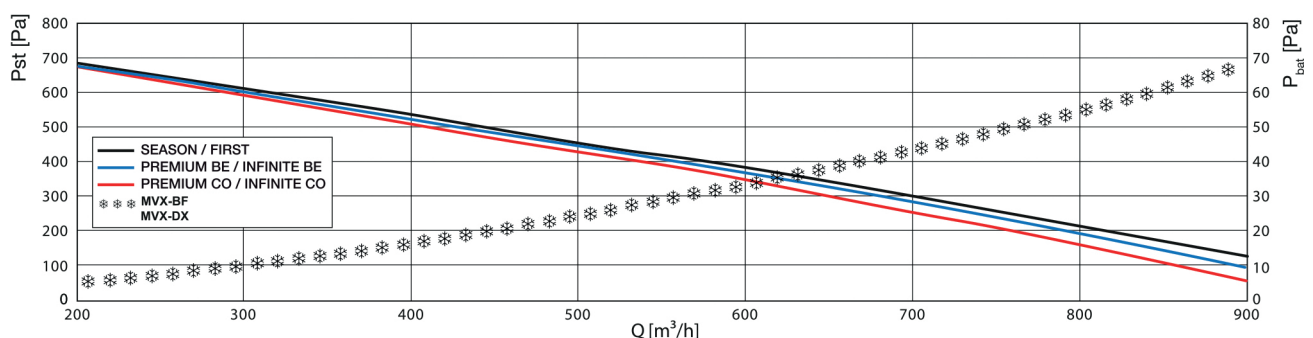
**M** = MAC2 EC

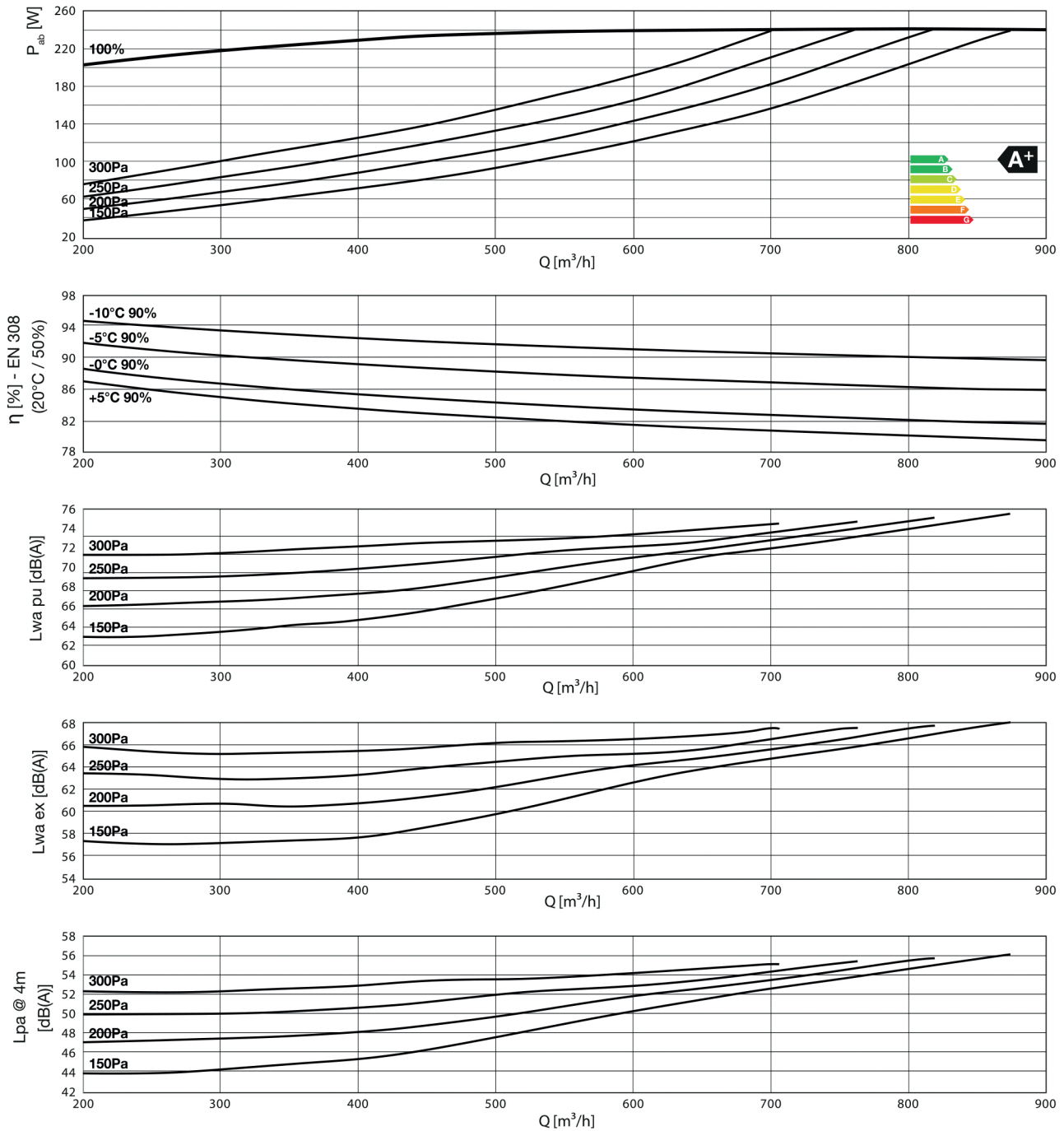
**Q** = QUATRO EC

**W** = Configuration (Configurations Y - D - G only available on demand)

### Selection curves

## GTDHR(V) 9008

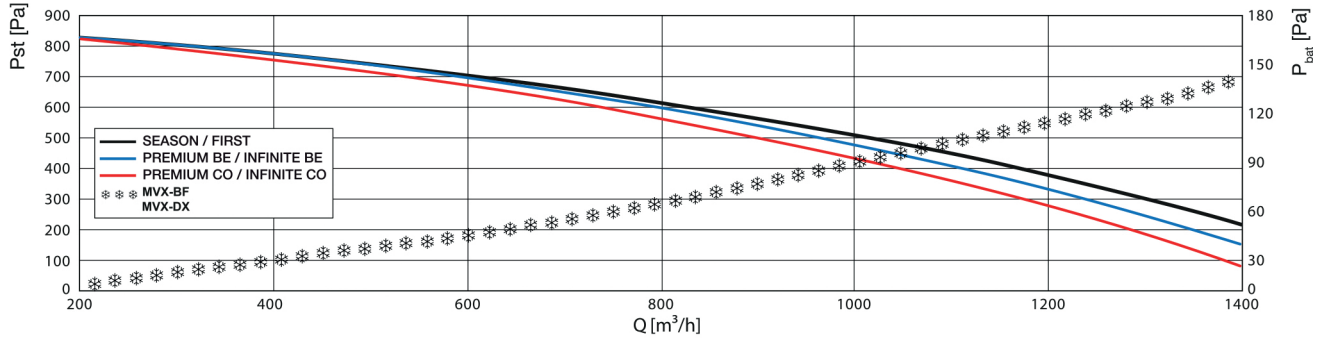


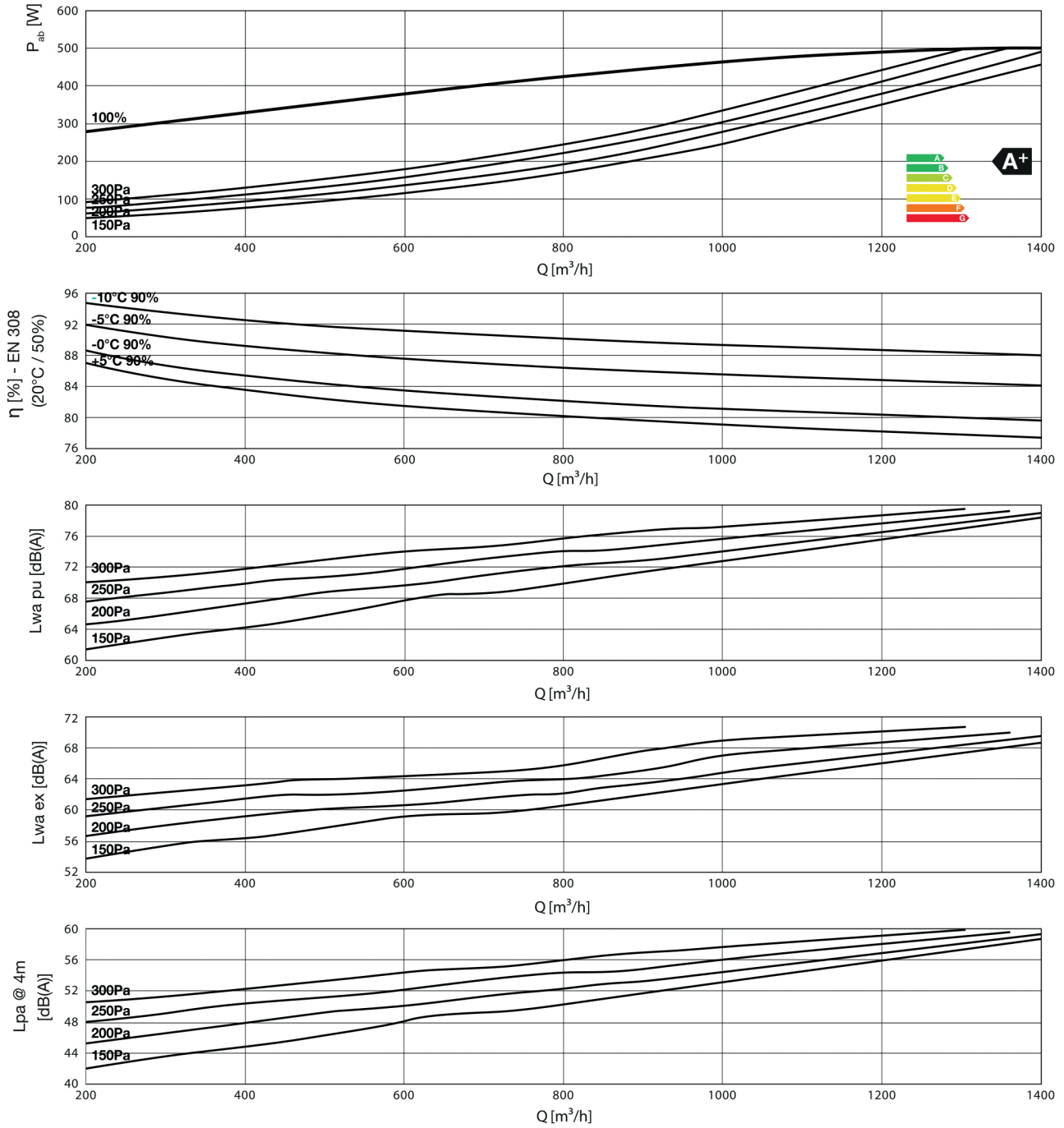




Selection curves

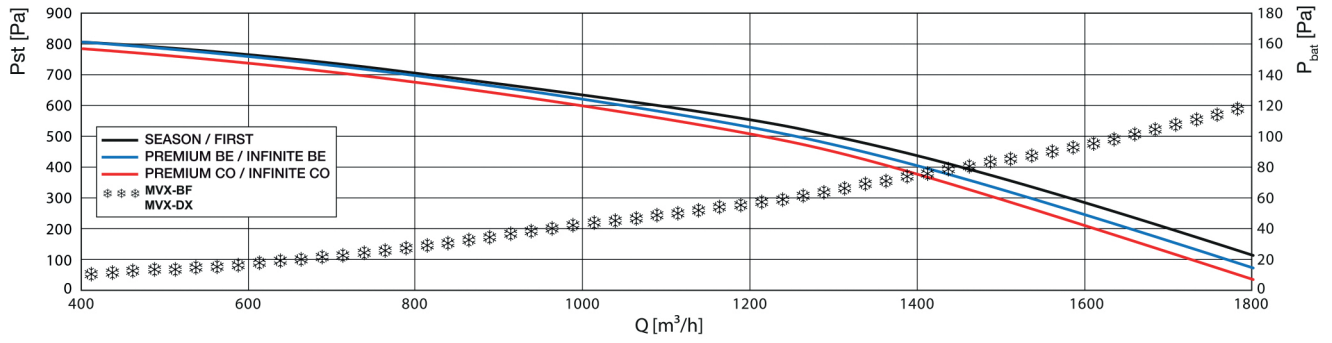
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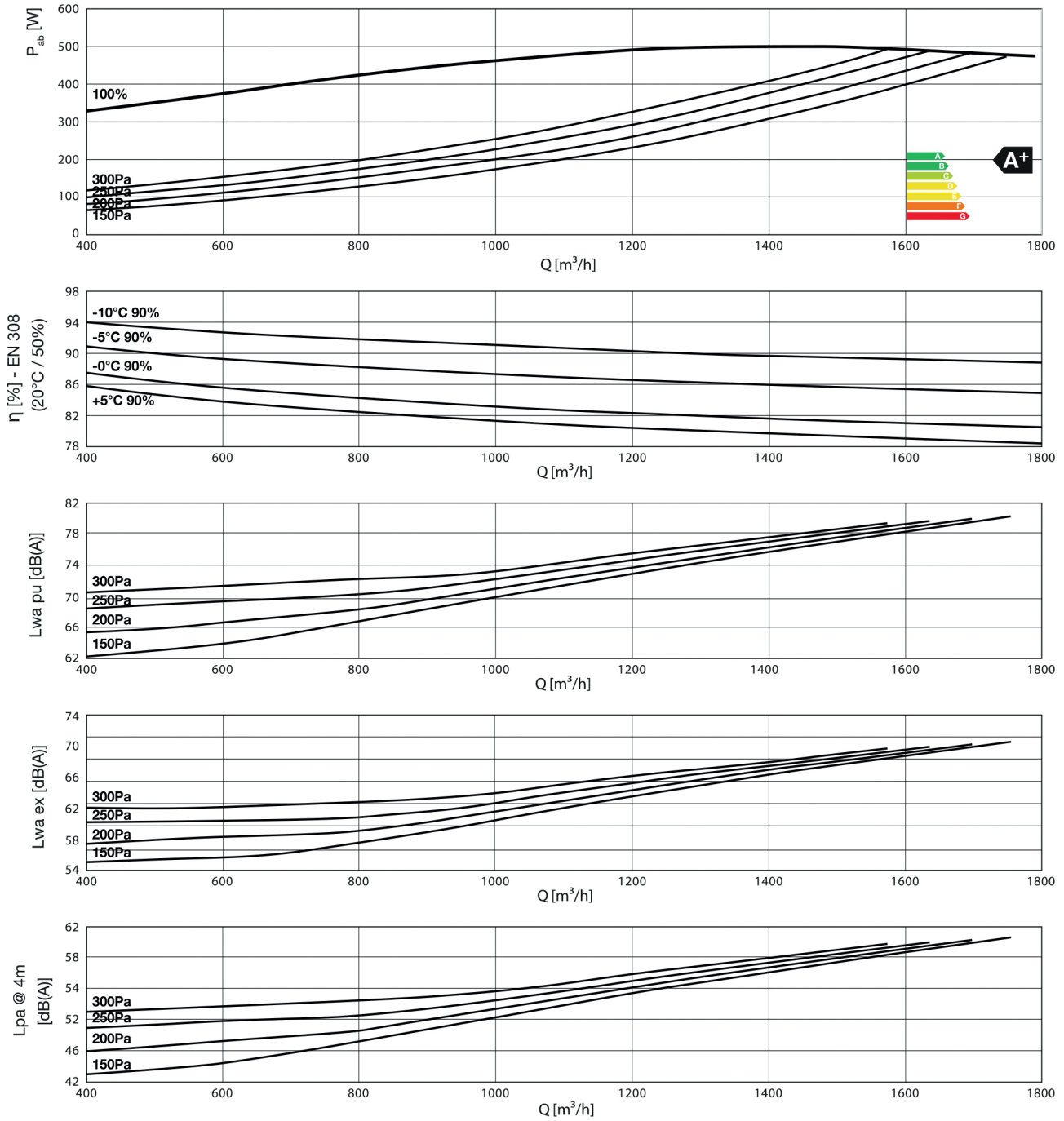




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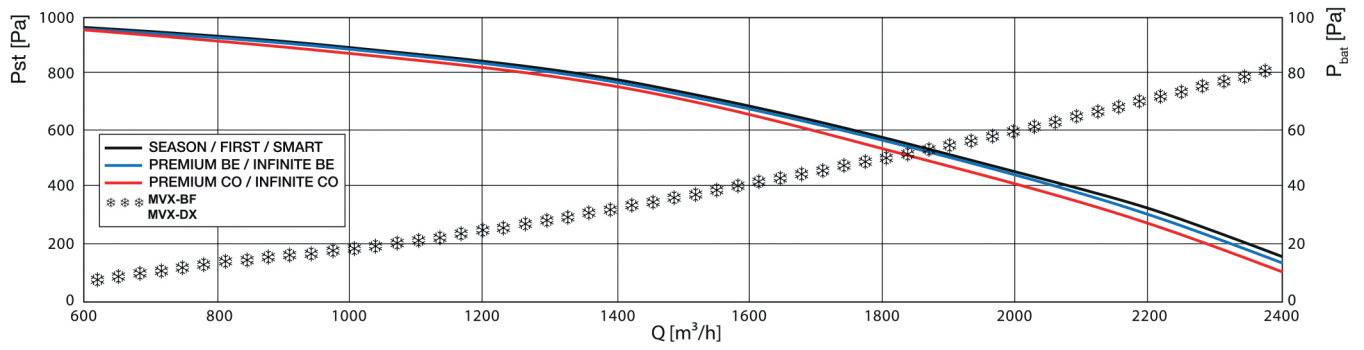
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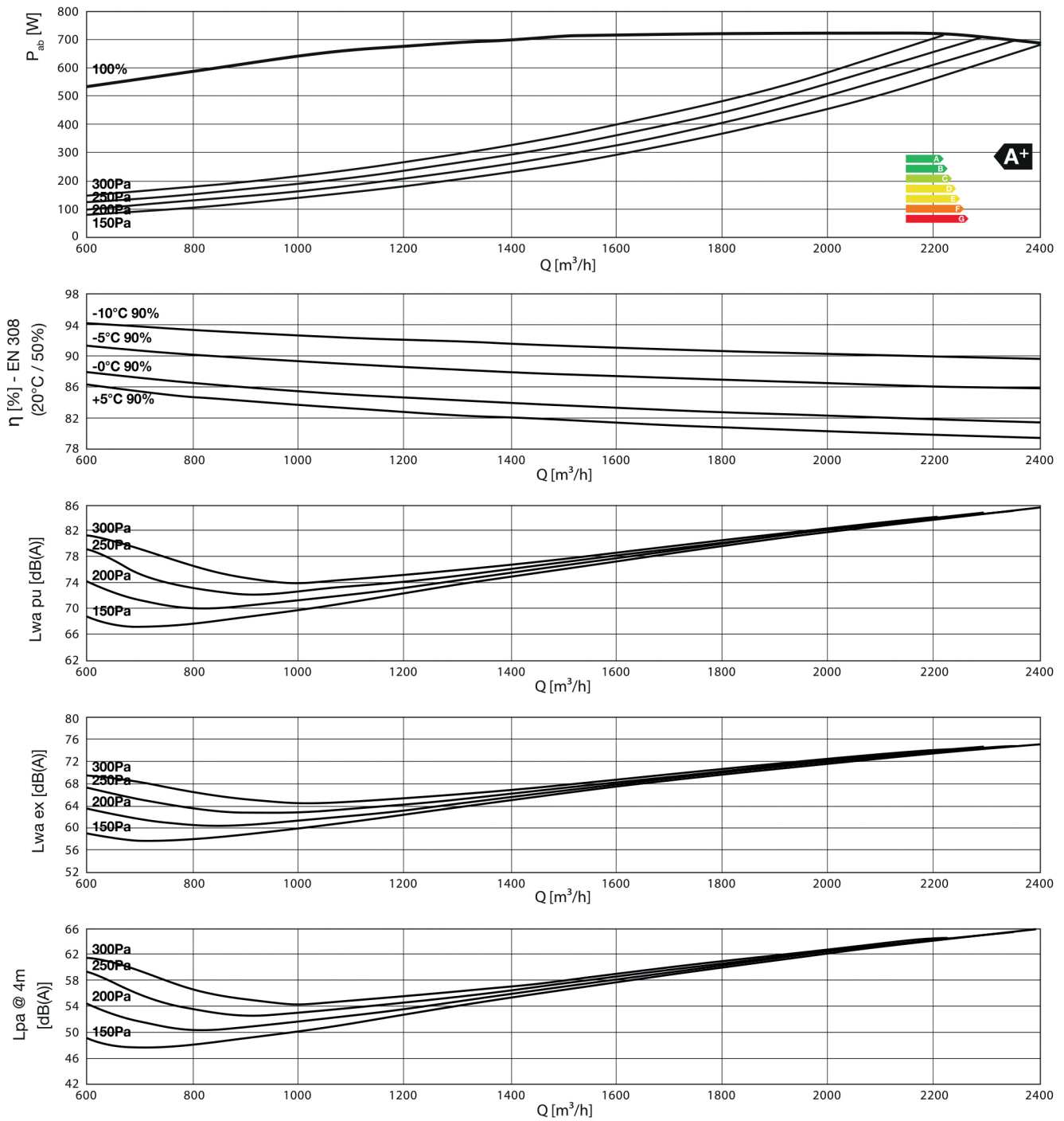




Selection curves

GTDHR(V) 9023

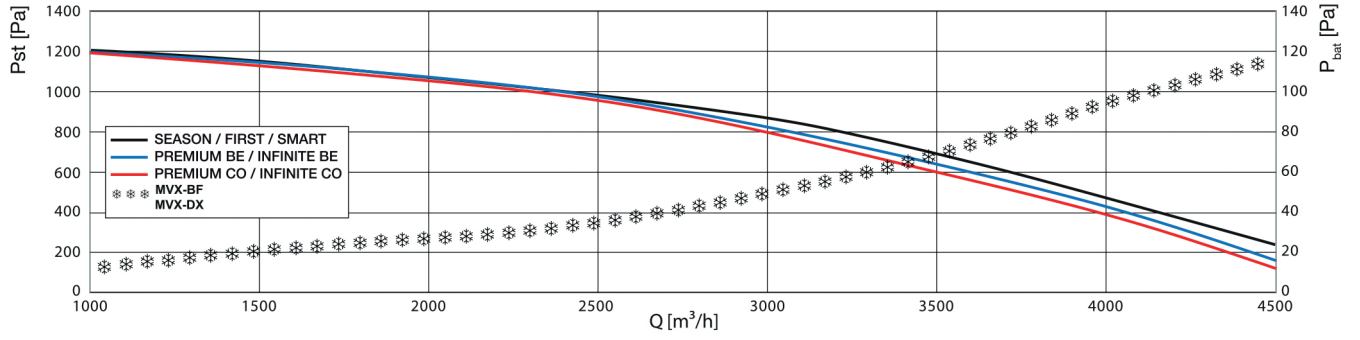


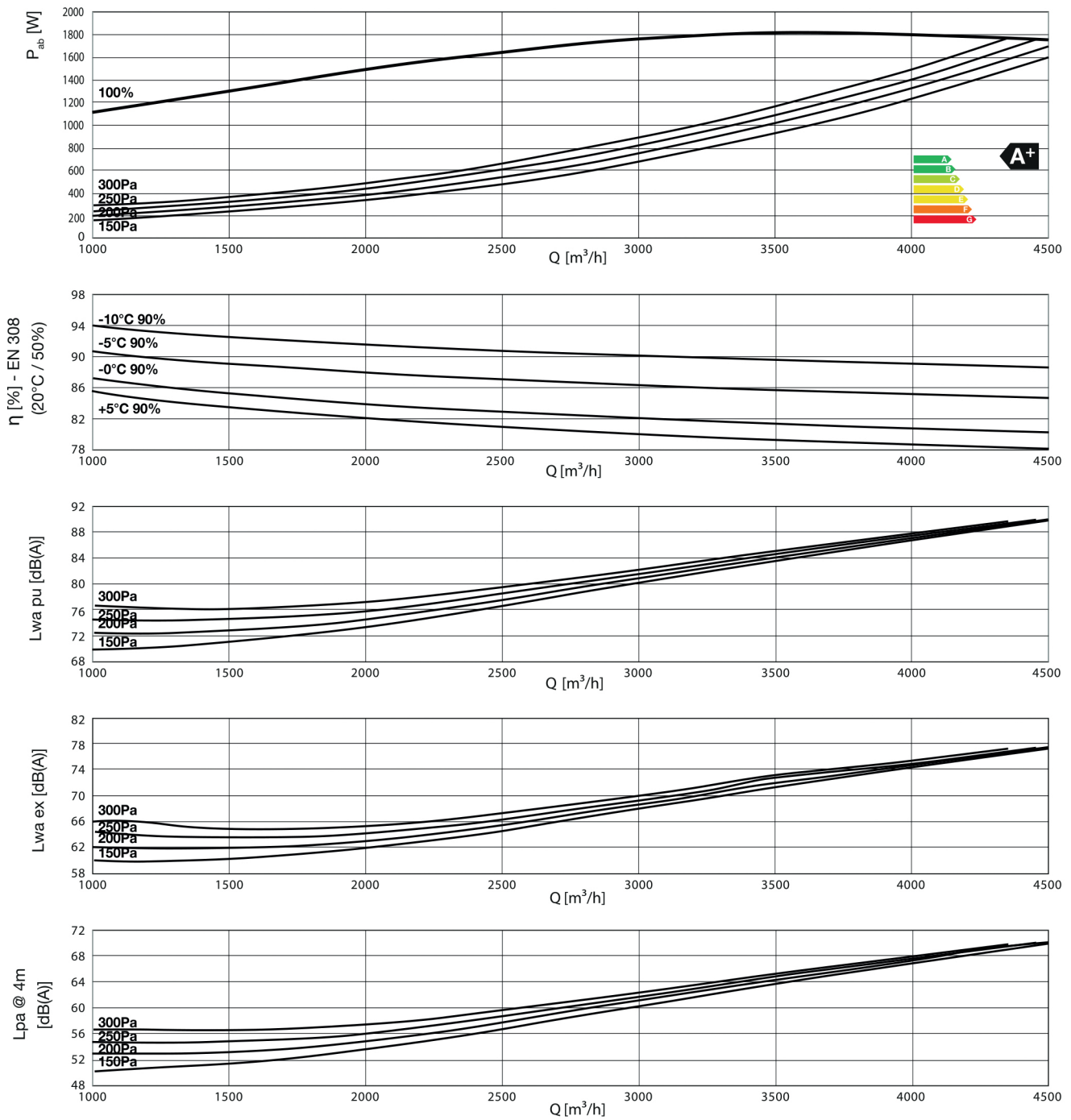




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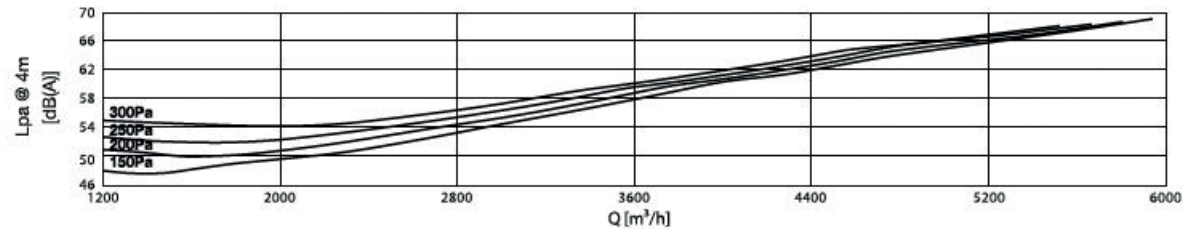
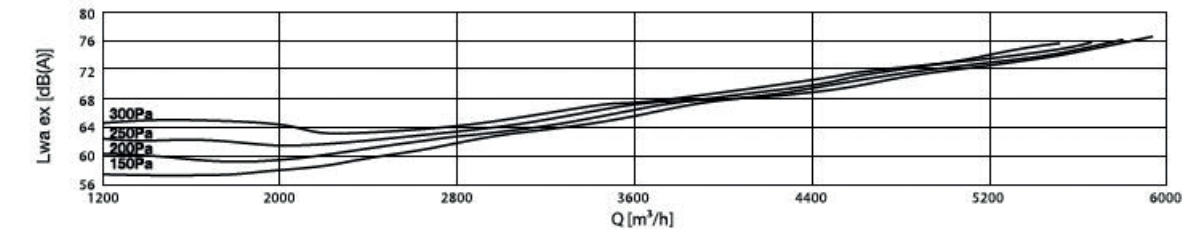
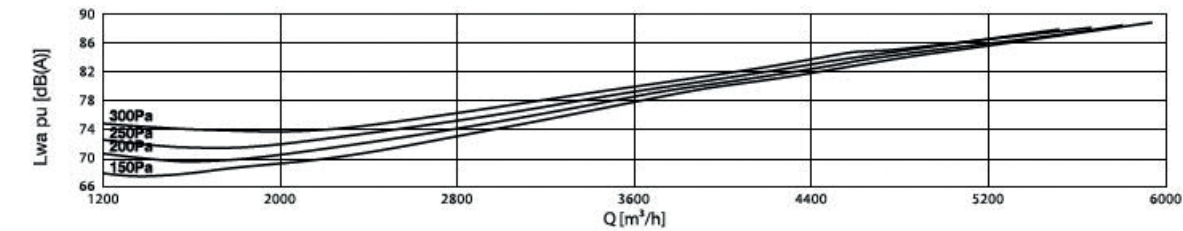
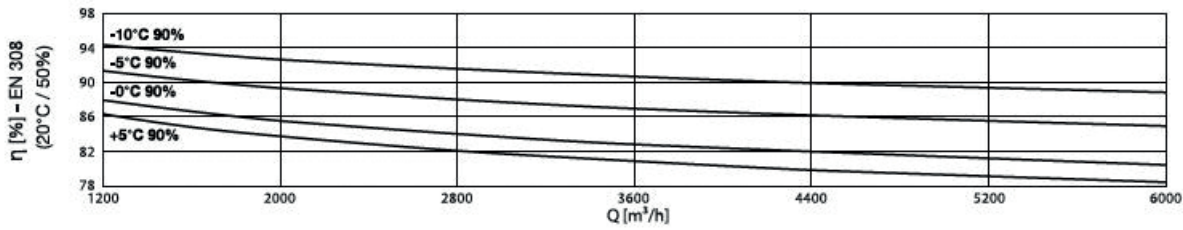
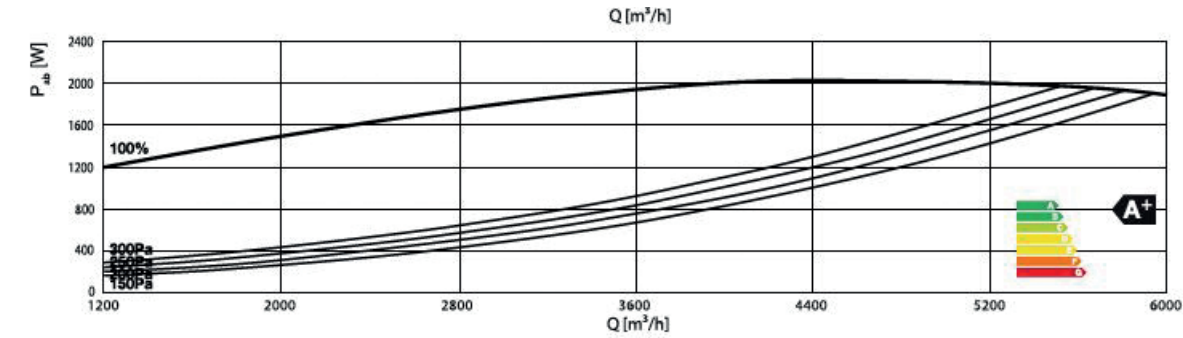
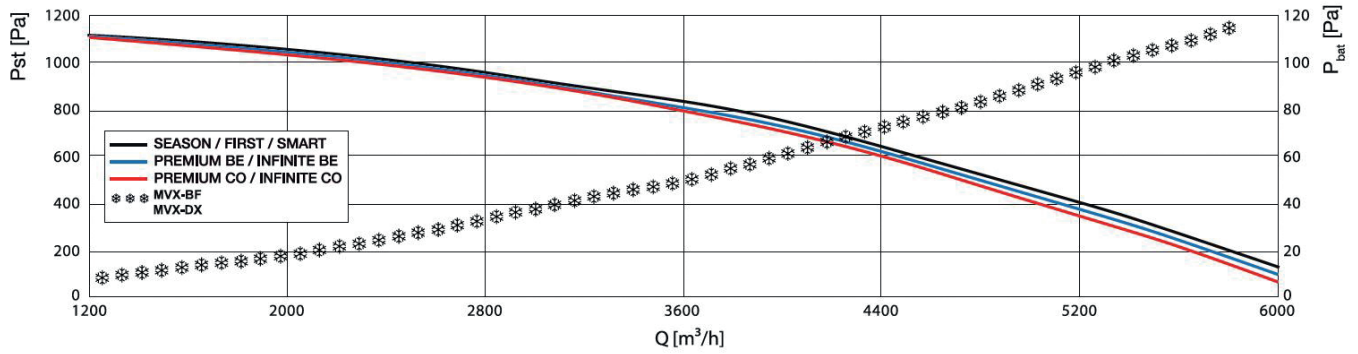
GTDHR(V) 9035





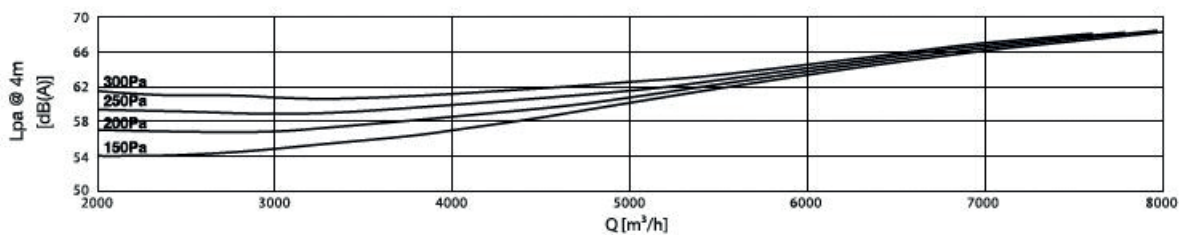
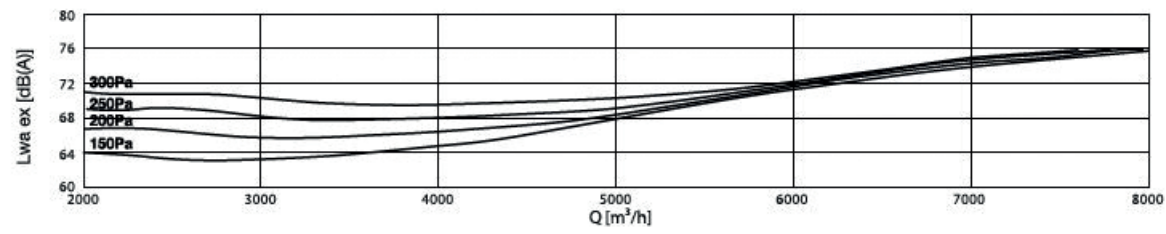
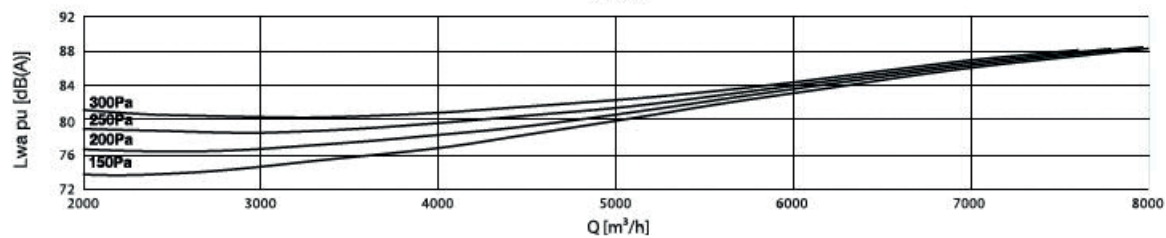
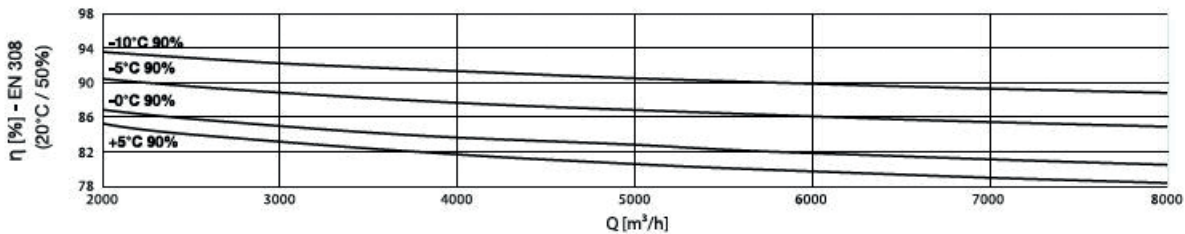
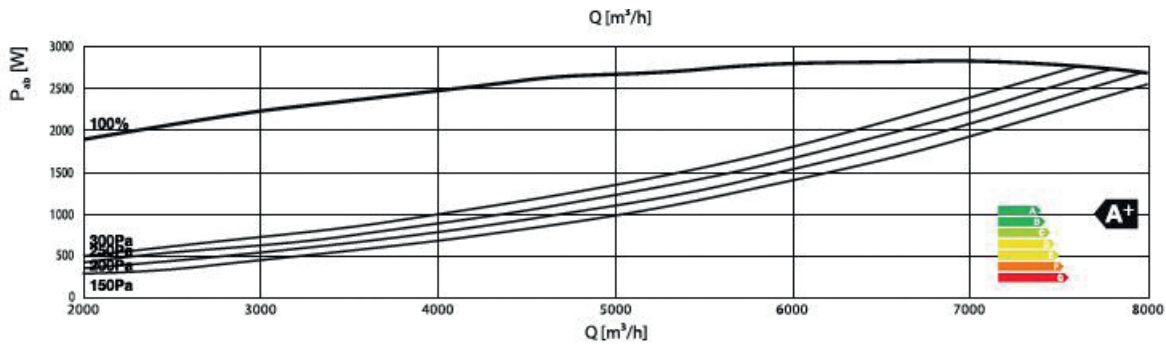
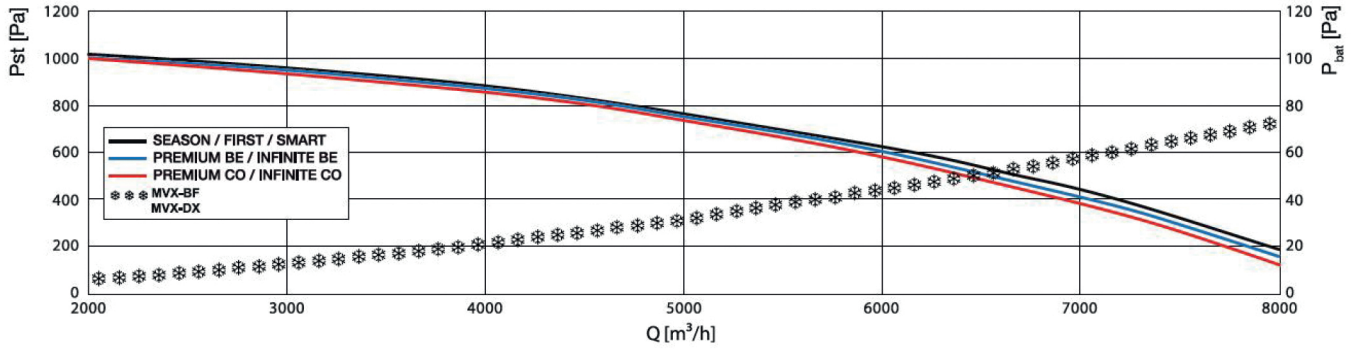
Selection curves

# GTDHRV 9048



Selection curves

GTDHRV 9070



- Pst [Pa] = Static pressure
- P<sub>bat</sub> [Pa] = Pressure loss batteries
- BE = Electrical battery
- BC = Hotwater battery
- BF = Chilled water battery
- DX = Direct expansion
- P<sub>ab</sub> [W] = Absorbed power per fan
- η [%] - EN 308 (20°C / 50%) = Efficiency
- Lwa pu = Sound power level in duct motor side
- Lwa ex = Sound power level in duct filter side
- Lpa @ 4m = Sound pressure level in free field with inlets and outlets connected

Technical data										
		Q <sub>max</sub> [m³/h] @ 150 Pa	U [V]	P <sub>F</sub> [W]	P <sub>EPoH</sub> [kW]	I <sub>max</sub> [A]	t <sub>m</sub> [°C]	t <sub>o</sub> [°C]	IP	Lpa @ 4m [dB(A)]
GTDHRV Premium BC 9008		820*	1 x 230	2 x 220	-	3.40	60	-20	IP44	34
GTDHRV Premium BC 9010		1320*	1 x 230	2 x 480	-	4.30	60	-20	IP54	33
GTDHRV Premium BC 9016		1660*	1 x 230	2 x 480	-	4.30	60	-20	IP54	33
GTDHRV Premium BC 9023		2330*	1 x 230	2 x 700	-	6.00	40	-20	IP54	44
GTDHRV Premium BC 9035		4430*	3 x 400	2 x 2500	-	7.70	50	-20	IP54	39
GTDHRV Premium BC 9048		5730*	3 x 400	2 x 1950	-	6.30	50	-20	IP54	50
GTDHRV Premium BC 9070		7860*	3 x 400	2 x 2730	-	8.40	60	-20	IP54	50
GTDHRV Premium BE 9008	25	850*	1 x 230	2 x 220	2.50	14.30	60	-20	IP44	34
GTDHRV Premium BE 9010	25	1390*	1 x 230	2 x 480	2.50	15.20	60	-20	IP54	33
GTDHRV Premium BE 9016	37	1710*	1 x 230	2 x 480	3.75	20.60	60	-20	IP54	33
GTDHRV Premium BE 9016	52	1710*	3 x 400	2 x 480	5.25	11.90	60	-20	IP54	33
GTDHRV Premium BE 9023	37	2350*	1 x 230	2 x 700	3.75	22.30	40	-20	IP54	44
GTDHRV Premium BE 9023	67	2350*	3 x 400	2 x 700	6.75	15.70	40	-20	IP54	44
GTDHRV Premium BE 9035	67	4500*	3 x 400	2 x 2500	6.75	17.40	50	-20	IP54	39
GTDHRV Premium BE 9035	137	4500*	3 x 400	2 x 2500	13.50	27.20	50	-20	IP54	39
GTDHRV Premium BE 9048	67	5890*	3 x 400	2 x 1950	6.75	16.00	50	-20	IP54	51
GTDHRV Premium BE 9048	137	5890*	3 x 400	2 x 1950	13.50	25.80	50	-20	IP54	51
GTDHRV Premium BE 9070	105	8000*	3 x 400	2 x 2730	10.50	23.60	60	-20	IP54	51
GTDHRV Premium BE 9070	157	8000*	3 x 400	2 x 2730	15.75	31.10	60	-20	IP54	51

\*Fancurve is adjustable by means of the integrated regulation.

- P<sub>F</sub> = Fan power
- P<sub>EPoH</sub> = Power electrical post-heater
- t<sub>m</sub> = Maximum air temperature
- t<sub>o</sub> = Minimum operating temperature
- Lpa @ 4m = Sound pressure level at 4 m

Technical data water coil										
	T <sub>wr</sub> [°C/°C]	T <sub>a,i</sub> [°C]	*	Q <sub>v,a</sub> [m³/h]						
				300	400	500	600	700	800	
GTDHRV 9008 PBC	80/60	11	P [kW] / Ta,o [°C]	4.1 / 52	5.1 / 49	5.9 / 46	6.7 / 44	7.4 / 43	8.1 / 41	
			Q <sub>w</sub> [l/h] / dp,w [kPa]	180 / 6	220 / 6	260 / 5	290 / 6	330 / 7	350 / 8	
		15	P [kW] / Ta,o [°C]	3.8 / 53	4.7 / 50	5.5 / 48	6.6 / 46	6.9 / 44	7.5 / 43	
			Q <sub>w</sub> [l/h] / dp,w [kPa]	170 / 5	210 / 5	240 / 7	270 / 5	300 / 6	330 / 7	
	90/70	11	P [kW] / Ta,o [°C]	4.9 / 60	6.0 / 56	7.1 / 53	8.0 / 51	8.8 / 49	9.6 / 47	
			Q <sub>w</sub> [l/h] / dp,w [kPa]	220 / 5	270 / 5	310 / 6	350 / 8	390 / 9	420 / 11	
		15	P [kW] / Ta,o [°C]	4.6 / 61	5.7 / 57	6.6 / 55	7.5 / 52	8.3 / 50	9.0 / 49	
			Q <sub>w</sub> [l/h] / dp,w [kPa]	200 / 5	250 / 4	290 / 5	330 / 7	370 / 8	400 / 10	
	45/40	11	P [kW] / Ta,o [°C]	2.1 / 32	2.6 / 31	3.1 / 29	3.5 / 28	3.8 / 27	4.2 / 27	
			Q <sub>w</sub> [l/h] / dp,w [kPa]	364 / 5	448 / 7	6532 / 10	302 / 12	672 / 13	728 / 15	
		15	P [kW] / Ta,o [°C]	1.8 / 33	2.3 / 32	2.6 / 31	3.0 / 30	3.3 / 29	3.6 / 28	
			Q <sub>w</sub> [l/h] / dp,w [kPa]	322 / 6	392 / 6	462 / 8	518 / 9	574 / 11	630 / 13	
60/50	11	P [kW] / Ta,o [°C]	3.1 / 42	3.8 / 40	4.5 / 38	5.1 / 36	5.6 / 35	6.6 / 34		
		Q <sub>w</sub> [l/h] / dp,w [kPa]	270 / 5	330 / 8	390 / 10	440 / 13	490 / 13	540 / 15		
	15	P [kW] / Ta,o [°C]	2.8 / 43	3.5 / 41	4.0 / 39	4.6 / 38	5.1 / 37	5.5 / 36		
		Q <sub>w</sub> [l/h] / dp,w [kPa]	240 / 7	300 / 6	350 / 8	400 / 10	440 / 13	480 / 12		
GTDHRV 9010 PBC	80/60	11	P [kW] / Ta,o [°C]	5.1 / 49	6.7 / 44	8.1 / 41	9.3 / 39	10.3 / 37	11.3 / 35	
			Q <sub>w</sub> [l/h] / dp,w [kPa]	220 / 6	290 / 6	350 / 8	410 / 10	450 / 13	490 / 12	
		15	P [kW] / Ta,o [°C]	4.7 / 50	6.2 / 46	7.5 / 43	8.6 / 41	9.5 / 39	10.4 / 37	
			Q <sub>w</sub> [l/h] / dp,w [kPa]	210 / 5	270 / 5	330 / 7	380 / 9	420 / 11	460 / 13	
	90/70	11	P [kW] / Ta,o [°C]	6.0 / 56	8.0 / 51	9.6 / 47	11.1 / 44	12.4 / 42	13.5 / 40	
			Q <sub>w</sub> [l/h] / dp,w [kPa]	270 / 5	350 / 8	420 / 11	490 / 12	540 / 14	590 / 17	
		15	P [kW] / Ta,o [°C]	5.7 / 57	7.5 / 52	9.0 / 49	10.4 / 46	11.6 / 44	12.6 / 42	
			Q <sub>w</sub> [l/h] / dp,w [kPa]	250 / 4	330 / 7	400 / 10	460 / 12	510 / 13	560 / 15	
	45/40	11	P [kW] / Ta,o [°C]	2.6 / 31	3.5 / 28	4.2 / 27	4.8 / 25	5.4 / 24	5.9 / 24	
			Q <sub>w</sub> [l/h] / dp,w [kPa]	448 / 7	602 / 12	728 / 15	840 / 19	938 / 23	1022 / 27	
		15	P [kW] / Ta,o [°C]	2.3 / 32	3.0 / 30	3.6 / 28	4.1 / 27	4.6 / 26	5.0 / 26	
			Q <sub>w</sub> [l/h] / dp,w [kPa]	392 / 6	518 / 9	630 / 13	714 / 14	798 / 18	866 / 21	
	60/50	11	P [kW] / Ta,o [°C]	3.8 / 40	5.1 / 36	6.1 / 34	7.0 / 32	7.9 / 31	8.6 / 29	
			Q <sub>w</sub> [l/h] / dp,w [kPa]	330 / 8	440 / 13	540 / 15	620 / 19	690 / 24	750 / 28	
		15	P [kW] / Ta,o [°C]	3.5 / 41	4.6 / 38	5.5 / 36	6.4 / 34	7.1 / 33	7.8 / 32	
			Q <sub>w</sub> [l/h] / dp,w [kPa]	300 / 6	400 / 10	480 / 12	560 / 16	620 / 20	680 / 23	

				600	900	1200	1500	1800	/
GTDHRV 9016 PBC	80/60	11	P [kW]/ Ta,o [°C]	8.2 / 52	10.9 / 47	13.2 / 44	15.2 / 41	17.0 / 39	/
			Q <sub>w</sub> [l/h] / dp,w [kPa]	360 / 5	480 / 6	580 / 9	670 / 12	750 / 15	/
	15	P [kW]/ Ta,o [°C]	7.6 / 53	10.1 / 48	12.2 / 45	14.1 / 43	15.8 / 41	/	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	330 / 5	440 / 8	540 / 8	620 / 10	690 / 13	/	
	90/70	11	P [kW]/ Ta,o [°C]	9.6 / 59	12.9 / 54	15.7 / 50	18.1 / 47	20.3 / 45	/
			Q <sub>w</sub> [l/h] / dp,w [kPa]	430 / 7	570 / 9	690 / 12	800 / 14	890 / 17	/
	15	P [kW]/ Ta,o [°C]	9.1 / 60	12.1 / 55	14.7 / 52	17.0 / 49	19.0 / 47	/	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	400 / 6	530 / 8	650 / 11	750 / 14	840 / 16	/	
	45/40	11	P [kW]/ Ta,o [°C]	4.2 / 32	5.6 / 30	6.8 / 28	7.9 / 27	8.8 / 26	/
			Q <sub>w</sub> [l/h] / dp,w [kPa]	520 / 8	700 / 14	850 / 18	980 / 23	1100 / 28	/
		15	P [kW]/ Ta,o [°C]	3.6 / 33	4.8 / 31	5.9 / 30	6.8 / 29	7.6 / 28	/
			Q <sub>w</sub> [l/h] / dp,w [kPa]	450 / 8	600 / 11	730 / 15	840 / 17	940 / 21	/
60/50	11	P [kW]/ Ta,o [°C]	6.1 / 41	8.2 / 38	10.0 / 36	11.5 / 34	12.9 / 32	/	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	530 / 8	710 / 14	870 / 18	1010 / 23	1130 / 27	/	
15	P [kW]/ Ta,o [°C]	5.5 / 43	7.4 / 40	9.0 / 37	10.4 / 36	11.7 / 34	/		
	Q <sub>w</sub> [l/h] / dp,w [kPa]	480 / 7	650 / 12	790 / 15	910 / 19	1020 / 24	/		
				800	1200	1600	2000	2400	/
GTDHRV 9023 PBC	80/60	11	P [kW]/ Ta,o [°C]	11.2 / 53	15.1 / 49	18.3 / 45	21.2 / 43	23.8 / 41	/
			Q <sub>w</sub> [l/h] / dp,w [kPa]	490 / 3	660 / 6	810 / 6	930 / 8	1050 / 10	/
	15	P [kW]/ Ta,o [°C]	10.4 / 54	14.0 / 50	17.0 / 47	19.7 / 44	22.1 / 43	/	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	460 / 5	610 / 5	750 / 7	860 / 7	970 / 9	/	
	90/70	11	P [kW]/ Ta,o [°C]	13.3 / 61	17.9 / 56	21.8 / 52	25.3 / 49	28.5 / 46	/
			Q <sub>w</sub> [l/h] / dp,w [kPa]	590 / 4	790 / 6	960 / 8	1110 / 11	1250 / 12	/
	15	P [kW]/ Ta,o [°C]	12.5 / 62	16.8 / 57	20.5 / 53	23.8 / 51	26.7 / 48	/	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	550 / 4	740 / 7	900 / 7	1050 / 10	1180 / 11	/	
	45/40	11	P [kW]/ Ta,o [°C]	5.8 / 33	7.8 / 30	9.5 / 29	11.0 / 27	12.4 / 26	/
			Q <sub>w</sub> [l/h] / dp,w [kPa]	1008 / 7	1344 / 9	1652 / 12	1918 / 15	2142 / 19	/
	15	P [kW]/ Ta,o [°C]	5.0 / 34	6.7 / 32	8.2 / 30	9.5 / 29	10.6 / 28	/	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	868 / 5	1162 / 7	1414 / 10	1638 / 12	1848 / 15	/	
60/50	11	P [kW]/ Ta,o [°C]	8.4 / 42	11.3 / 39	13.9 / 37	16.1 / 35	18.1 / 34	/	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	740 / 7	990 / 9	1210 / 12	1400 / 16	1580 / 17	/	
15	P [kW]/ Ta,o [°C]	7.6 / 44	10.3 / 41	12.5 / 38	14.5 / 37	16.3 / 35	/		
	Q <sub>w</sub> [l/h] / dp,w [kPa]	670 / 6	900 / 8	1090 / 11	1270 / 13	1430 / 16	/		
				1500	2100	2700	3300	3900	4500
GTDHRV 9035 PBC	80/60	11	P [kW]/ Ta,o [°C]	19.5 / 50	24.7 / 46	29.2 / 43	33.2 / 41	36.8 / 39	40.1 / 38
			Q <sub>w</sub> [l/h] / dp,w [kPa]	860 / 4	1080 / 6	1280 / 6	1460 / 8	1620 / 7	1760 / 8
	15	P [kW]/ Ta,o [°C]	18.1 / 51	22.9 / 48	27.0 / 45	30.7 / 43	34.0 / 41	37.1 / 40	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	800 / 3	1000 / 5	1190 / 5	1350 / 7	1490 / 8	1630 / 7	
	90/70	11	P [kW]/ Ta,o [°C]	23.2 / 57	29.4 / 53	34.8 / 50	39.6 / 47	44.0 / 45	48.0 / 43
			Q <sub>w</sub> [l/h] / dp,w [kPa]	1020 / 5	1290 / 6	1530 / 8	1750 / 8	1940 / 10	2110 / 11
	15	P [kW]/ Ta,o [°C]	21.8 / 58	27.6 / 54	32.6 / 51	37.2 / 49	41.2 / 47	45.0 / 45	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	960 / 5	1220 / 5	1440 / 7	1640 / 7	1820 / 9	1980 / 10	
	45/40	11	P [kW]/ Ta,o [°C]	10.1 / 31	12.8 / 29	15.1 / 28	17.2 / 27	19.1 / 26	20.8 / 25
			Q <sub>w</sub> [l/h] / dp,w [kPa]	1750 / 6	2212 / 7	2618 / 10	2982 / 13	3318 / 16	3626 / 18
		15	P [kW]/ Ta,o [°C]	8.7 / 32	11.0 / 31	13.0 / 29	14.8 / 28	16.4 / 28	17.9 / 27
			Q <sub>w</sub> [l/h] / dp,w [kPa]	1498 / 6	1904 / 7	2254 / 8	2562 / 10	2842 / 12	3108 / 14
60/50	11	P [kW]/ Ta,o [°C]	14.7 / 40	18.6 / 38	22.1 / 35	25.2 / 34	28.0 / 32	30.5 / 31	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	1280 / 6	1630 / 8	1930 / 10	2200 / 13	2440 / 16	2670 / 17	
15	P [kW]/ Ta,o [°C]	13.3 / 41	16.8 / 39	20.0 / 37	22.7 / 36	25.2 / 34	27.5 / 33		
	Q <sub>w</sub> [l/h] / dp,w [kPa]	1160 / 5	1470 / 8	1740 / 9	1990 / 11	2210 / 13	2410 / 15		
				2000	2800	3600	4400	5200	6000
GTDHRV 9048 PBC	80/60	11	P [kW]/ Ta,o [°C]	27.2 / 52	34.7 / 48	41.2 / 45	47.0 / 43	52.3 / 41	57.1 / 39
			Q <sub>w</sub> [l/h] / dp,w [kPa]	1200 / 3	1520 / 5	1810 / 4	2060 / 5	2300 / 6	2510 / 7
	15	P [kW]/ Ta,o [°C]	25.3 / 53	32.1 / 49	38.1 / 47	43.5 / 45	48.4 / 43	51.9 / 41	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	1110 / 4	1410 / 4	1670 / 3	1910 / 4	2130 / 5	2320 / 6	
	90/70	11	P [kW]/ Ta,o [°C]	32.3 / 59	41.3 / 55	49.1 / 52	56.2 / 49	62.6 / 47	68.4 / 45
			Q <sub>w</sub> [l/h] / dp,w [kPa]	1430 / 4	1820 / 4	2160 / 5	2470 / 6	2760 / 6	3020 / 7
	15	P [kW]/ Ta,o [°C]	30.4 / 60	38.7 / 56	46.1 / 53	52.6 / 47	58.7 / 49	64.2 / 47	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	1340 / 4	1710 / 3	2030 / 4	2320 / 6	2590 / 7	2830 / 6	
	45/40	11	P [kW]/ Ta,o [°C]	14.0 / 32	17.9 / 30	21.3 / 29	24.4 / 28	27.2 / 27	29.6 / 26
			Q <sub>w</sub> [l/h] / dp,w [kPa]	2436 / 4	3108 / 6	3696 / 6	4228 / 8	4718 / 10	5166 / 12
		15	P [kW]/ Ta,o [°C]	12.1 / 33	15.4 / 31	18.3 / 30	20.9 / 29	23.3 / 28	25.4 / 28
			Q <sub>w</sub> [l/h] / dp,w [kPa]	2100 / 5	2674 / 4	3178 / 6	3626 / 8	4046 / 7	4424 / 9
60/50	11	P [kW]/ Ta,o [°C]	20.5 / 42	26.2 / 39	31.2 / 37	35.7 / 35	39.8 / 34	43.5 / 33	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	1790 / 4	2290 / 6	2720 / 6	3120 / 8	3470 / 10	3800 / 12	
15	P [kW]/ Ta,o [°C]	18.5 / 43	23.7 / 40	28.2 / 38	32.2 / 37	35.9 / 36	39.3 / 35		
	Q <sub>w</sub> [l/h] / dp,w [kPa]	1620 / 3	2070 / 5	2460 / 7	2810 / 7	3130 / 8	3430 / 10		
				3000	4000	5000	6000	7000	8000
GTDHRV 9070 PBC	80/60	11	P [kW]/ Ta,o [°C]	37.2 / 48	44.3 / 44	50.4 / 41	55.6 / 39	60.3 / 37	64.5 / 35
			Q <sub>w</sub> [l/h] / dp,w [kPa]	1630 / 8	1950 / 11	2210 / 13	2440 / 16	2650 / 17	2830 / 19
	15	P [kW]/ Ta,o [°C]	34.6 / 49	41.2 / 46	46.8 / 43	51.6 / 41	55.9 / 39	59.8 / 37	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	1520 / 8	1810 / 9	2050 / 12	2270 / 14	2460 / 16	2630 / 18	
	90/70	11	P [kW]/ Ta,o [°C]	43.9 / 55	52.4 / 50	59.6 / 47	65.9 / 44	71.5 / 42	76.5 / 40
			Q <sub>w</sub> [l/h] / dp,w [kPa]	1940 / 10	2310 / 14	2630 / 18	2900 / 20	3150 / 23	3370 / 26
	15	P [kW]/ Ta,o [°C]	41.3 / 56	49.3 / 52	56.0 / 49	61.9 / 46	67.1 / 44	71.8 / 42	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	1820 / 9	2170 / 13	2470 / 16	2730 / 17	2960 / 20	3160 / 23	
	45/40	11	P [kW]/ Ta,o [°C]	19.2 / 30	22.9 / 28	26.0 / 27	28.8 / 25	31.2 / 24	33.4 / 24
			Q <sub>w</sub> [l/h] / dp,w [kPa]	3332 / 16	3976 / 21	4522 / 26	4998 / 32	5432 / 37	5810 / 40
	15	P [kW]/ Ta,o [°C]	16.6 / 32	19.8 / 30	22.5 / 28	24.8 / 27	26.9 / 27	28.8 / 26	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	2870 / 13	3430 / 17	3906 / 20	4312 / 24	4676 / 28	5012 / 32	
60/50	11	P [kW]/ Ta,o [°C]	27.8 / 39	33.3 / 36	37.9 / 34	41.9 / 32	45.5 / 30	48.7 / 29	
		Q <sub>w</sub> [l/h] / dp,w [kPa]	2430 / 16	2910 / 21	3310 / 27	3660 / 32	3970 / 37	4260 / 41	
15	P [kW]/ Ta,o [°C]	25.2 / 40	30.1 / 38	34.3 / 36	37.9 / 34	41.2 / 33	44.1 / 31		
	Q <sub>w</sub> [l/h] / dp,w [kPa]	2210 / 14	2630 / 19	3000 / 22	3320 / 27	3600 / 31	3850 / 35		

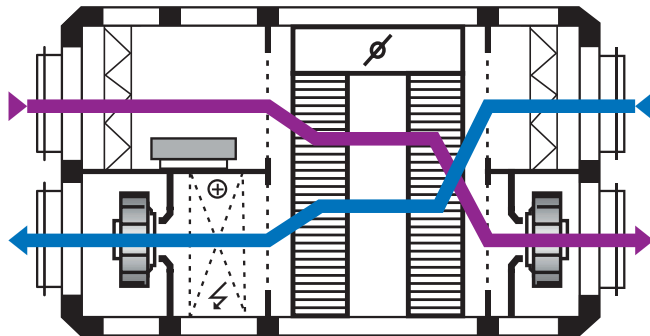
- Twr = Temperature water regime
- Ta,i = Temperature air before the coil
- \*P = Power of the coil
- \*Ta,o = Temperature after the coil
- \*Q<sub>w</sub> = Water flow
- \*dp,w = Water pressure loss



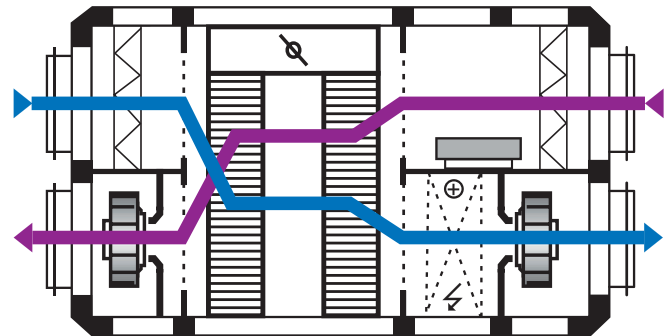
Vertical configurations - superposed flow - view from access panel side

GTDHRV 9008 - 9048

W

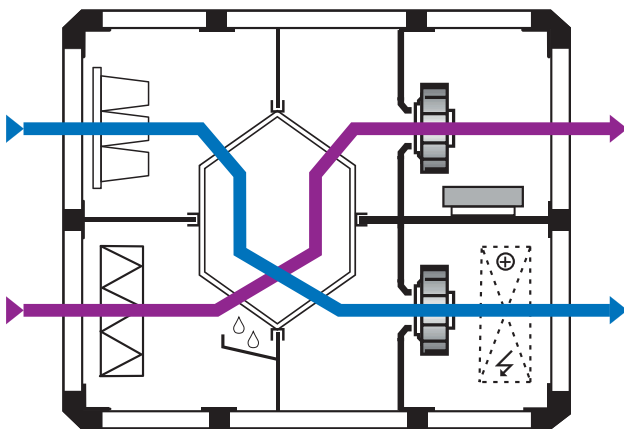


Y

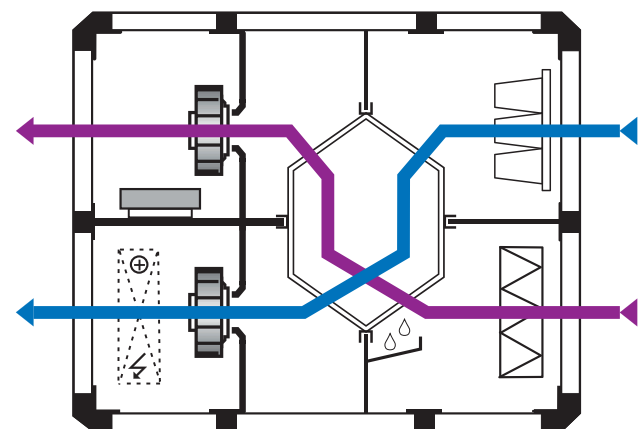


GTDHRV 9070

D



G

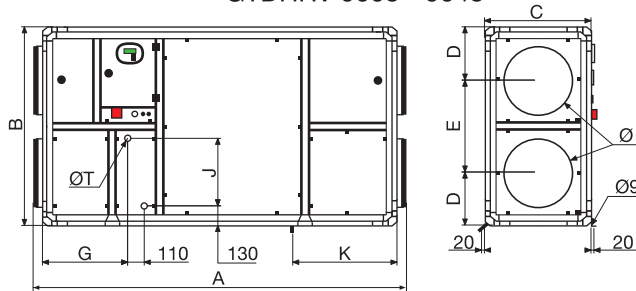


Blue arrow: Fresh air  
Purple arrow: Return air

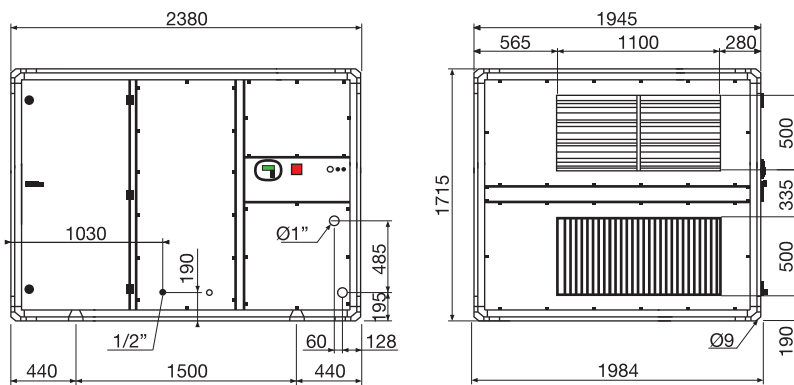
Configuration W (9008-9048) and D (9070) = standard (other configurations only available on demand)

Product drawing vertical configuration

GTDHRV 9008 - 9048



GTDHRV 9070



Dimensions														
	Ø [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	F1 [mm]	F2 [mm]	G [mm]	J [mm]	K [mm]	T [Ø]**	[kg]
GTDHRV Premium 9008	315	2010	915	505	255	405	1097	362	517	500	245	540	1/2	218
GTDHRV Premium 9010	315	2010	915	505	255	405	1097	362	517	500	245	540	1/2	223
GTDHRV Premium 9016	400	2230	1115	605	305	505	1261	362	607	565	345	690	1/2	300
GTDHRV Premium 9023	450	2345	1315	705	355	605	1376	362	607	565	445	690	3/4	402
GTDHRV Premium 9035	500	2625	1515	805	405	705	1520	450	655	640	545	740	3/4	560
GTDHRV Premium 9048	630	2970	1715	1030	455	805	1677	535	758	685	645	840	1"	735
GTDHRV Premium 9070							*						1"	930

\* See product drawing