

NOVO^{ENT}



REC-NOVO

heat recovery unit

RECUNOVO heat recovery units are suitable for residential and commercial applications.

Characteristics

- Fully removable panels (sandwich type).
- Acoustic and thermal panel insulation: thickness 10 mm for RECUNOVO 30, 50 and 100; bigger models of RECUNOVO, RECUNOVO HC, RECUNOVO F & RECUNOVO PLUS 800 and 1000 thickness of 20 mm; thickness 25 mm for RECUNOVO PLUS 1500 and 2000.
- High efficiency aluminium plated heat recovery with airflows separated by special seals.
- Stainless steel drain tray, extended to all the cooling/heating components and heat insulated and fitted with ½" GAS female threaded bottom outlet.
- Multi-speed direct driven double inlet forward curved fans.
- The unit is complete of electrical terminal box fitted with relay board, to aid the electrical connections and fan control.
- RECUNOVO, RECUNOVO PLUS & RECUNOVO HC, G4 efficiency class air filters, easily removable allowing their periodic cleaning. As an option, F6, F7 and F8 efficiency class soft bag filter.
- The characteristic curves include the drop pressure filter.

OPTIONS:

- Available heat recovery units with more than 70% or 90% efficiency.



RECUNOVO



RECUNOVO HC

The F versions includes:

- Motor with built-in frequency converter.
- RECU-NOVO BF motorized integrated by pass.
- High efficiency filters, class F6, F7, F8.
- Air pressure switch.
- Electronic built-in control for:
 - heating/cooling/free-cooling automatic mode (2/4 pipe plant)
 - antifreeze
 - electric heating (on/off)
 - winter heating speed
 - heat recovery defrost
 - manual or automatic fan speed selection
 - dry filter alarm
 - timer

The HC versions includes:

- Heat pump refrigeration system RC407 composed of scroll hermetic compressor, condenser and evaporator.
- Internal electrical board for supplying all the electrical powers.
- Temperature sensores.
- Electronic built-in control for:
 - heating/cooling/free-cooling automatic mode (2/4 pipe plant)
 - antifreeze
 - electric heating (on/off)
 - winter heating speed
 - heat recovery defrost
 - manual or automatic fan speed selection
 - timer

OPTIONS:

- Inverter motors.



RECU-NOVO F



RECU-NOVO 10



RECU-NOVO PLUS

	Máx. m³/h	E.S.P. Pa	dB (A)	%*	W	Fan speeds	Minimum protection degree	A	V/Hz/ph
RECU-NOVO 10	371	35	51	53,20	111	5	IP 20	1,10	230V 50Hz (I~)
RECU-NOVO 30	365	100	51	52,00	2 x 60	3	IP 20	1,20	230V 50Hz (I~)
RECU-NOVO 50	575	100	51	56,10	2 x 60	3	IP 20	1,40	230V 50Hz (I~)
RECU-NOVO 100	1.250	90	53	53,40	2 x 147	3	IP 20	3,00	230V 50Hz (I~)
RECU-NOVO B 100	910	100	52	54,00	2 x 147	3	IP 20	3,00	230V 50Hz (I~)
RECU-NOVO 140	1.810	140	60	52,10	2 x 350	3	IP 20	5,80	230V 50Hz (I~)
RECU-NOVO B 140	1.370	120	59	51,60	2 x 350	3	IP 20	5,80	230V 50Hz (I~)
RECU-NOVO 190	2.200	120	59	51,80	2 x 350	3	IP 20	6,20	230V 50Hz (I~)
RECU-NOVO B 190	1.800	120	58	51,00	2 x 350	3	IP 20	6,20	230V 50Hz (I~)
RECU-NOVO 250	2.600	110	56	57,60	2 x 350	3	IP 20	6,00	230V 50Hz (I~)
RECU-NOVO 320	3.600	170	59	56,00	2 x 550	3	IP 20	11,40	230V 50Hz (I~)
RECU-NOVO B 320	3.000	170	58	55,30	2 x 550	3	IP 20	11,40	230V 50Hz (I~)
RECU-NOVO 400	4.600	170	62	55,70	2 x 750	2	IP 20	6,20	400V 50Hz (III~)
RECU-NOVO B 400	3.750	100	61	55,30	2 x 750	2	IP 20	6,20	400V 50Hz (III~)
RECU-NOVO 500	5.550	120	64	54,60	2 x 1500	2	IP 20	11,20	400V 50Hz (III~)
RECU-NOVO 600	6.750	190	65	54,50	2 x 1500	2	IP 20	11,20	400V 50Hz (III~)
RECU-NOVO B 600	6.250	170	64	55,30	2 x 1500	2	IP 20	11,20	400V 50Hz (III~)

* Recovery efficiency at fan max speed; outside air temperature -5°C, room air temperature 20°C

	m³/h	E.S.P. Pa	dB (A)	Recovery Efficiency %	Motor power kW	Protection degree	Temperature class	V/Hz/ph
RECU-NOVO PLUS 800	8.000	200	74,9	50,8	2 x 2,2	IP 55	F	400V 50Hz (III~)
RECU-NOVO PLUS 1000	11.000	250	76,9	51,4	2 x 3,0	IP 55	F	400V 50Hz (III~)
RECU-NOVO PLUS 1250	14.000	250	72,9	55,5	2 x 4,0	IP 55	F	400V 50Hz (III~)
RECU-NOVO PLUS 1500	19.000	250	73,7	56,4	2 x 5,5	IP 55	F	400V 50Hz (III~)

	m³/h	W	A	%	kW	dB (A)	Protection degree	Temperature class	V/Hz/ph
RECU-NOVO F 140	1.400	2 x 450	12,60	52,10	6,70	60	IP 44	F	230V 50Hz (I~)
RECU-NOVO BF 140	1.100	2 x 450	12,60	50,60	5,10	59	IP 44	F	230V 50Hz (I~)
RECU-NOVO F 190	1.900	2 x 650	15,60	51,80	9,00	59	IP 44	F	230V 50Hz (I~)
RECU-NOVO BF 190	1.600	2 x 650	15,60	50,80	7,40	58	IP 44	F	230V 50Hz (I~)
RECU-NOVO F 250	2.500	2 x 650	15,60	57,60	13,20	56	IP 44	F	230V 50Hz (I~)
RECU-NOVO F 320	3.000	2 x 650	16,00	56,80	15,60	59	IP 44	F	230V 50Hz (I~)
RECU-NOVO BF 320	2.600	2 x 650	16,00	55,50	12,70	58	IP 44	F	230V 50Hz (I~)
RECU-NOVO F 400	4.000	2 x 1050	16,40	55,70	20,30	62	IP 44	F	230V 50Hz (I~)
RECU-NOVO BF 400	3.400	2 x 1050	16,10	55,60	16,70	61	IP 44	F	230V 50Hz (I~)
RECU-NOVO F 500	5.000	2 x 1500	11,20	54,60	24,90	64	IP 20	F	400V 50Hz (III~)
RECU-NOVO F 600	6.000	2 x 1500	11,20	54,50	29,90	65	IP 20	F	400V 50Hz (III~)
RECU-NOVO BF 600	5.500	2 x 1500	11,20	52,60	26,40	64	IP 20	F	400V 50Hz (III~)

Filter version	Filter on return	Filter on supply side
F1	G4	F6
F2	G4	G4+F6
F3	G4	G4+F7
F4	G4	G4+F8

Filter version	Filter on return	Filter on supply side
F5	F6	F6
F6	F6	F6+F7
F7	F6	F6+F8

	m³/h	Supply E.S.P. Pa	Return E.S.P. Pa	dB (A)	W	A	V/Hz/ph
RECU-NOVO HCT 140	900	180	140	55	2 x 420	7,2	230V 50Hz (I~)
RECU-NOVO HCP 140	450+450	180	140	55	2 x 420	7,2	230V 50Hz (I~)
RECU-NOVO HCT 190	1.400	170	120	53	2 x 420	7,2	230V 50Hz (I~)
RECU-NOVO HCP 190	700+700	170	120	53	2 x 420	7,2	230V 50Hz (I~)
RECU-NOVO HCT 250	2.000	150	100	56	2 x 550	9,2	230V 50Hz (I~)
RECU-NOVO HCP 250	1.000+1.000	150	100	56	2 x 550	9,2	230V 50Hz (I~)
RECU-NOVO HCT 320	2.600	140	80	59	2 x 600	13,2	230V 50Hz (I~)
RECU-NOVO HCP 320	1.300+1.300	140	80	59	2 x 600	13,2	230V 50Hz (I~)
RECU-NOVO HCT 400	3.300	150	80	60	2 x 750	6,2	400V 50Hz (III~)
RECU-NOVO HCP 400	1.650+1.650	150	80	60	2 x 750	6,2	400V 50Hz (III~)

	1		Saved powers ²		Installed cooling power				Installed heating power				
	Absorbed power W	A	Heat W	Cool W	Evaporator W ³	Total power W	Room power W	Temperat. °C	Condenser power W ⁴	Condenser power W ⁵	Total power W	Room power W	Temperat. °C
RECU-NOVO HCT 140	1.900	12,0	4.200	900	5.260	6.160	1.060	19,3	5.030	4.350	9.230	1.650	25,4
RECU-NOVO HCP 140	1.900	12,0	1.990	420	5.260	5.680	3.160	16,8	5.030	4.350	6.340	2.570	28,4
RECU-NOVO HCT 190	2.300	5,7	6.350	1.360	8.100	9.460	1.570	19,4	7.720	6.590	14.070	2.350	25,0
RECU-NOVO HCP 190	2.300	5,7	2.580	570	8.100	8.670	4.850	16,9	7.720	6.590	9.170	3.310	27,1
RECU-NOVO HCT 250	3.200	10,0	10.090	2.130	11.200	13.330	1.900	19,3	11.100	9.500	21.190	4.440	26,5
RECU-NOVO HCP 250	3.200	10,0	4.700	1.000	11.200	12.200	6.540	16,8	11.100	9.500	14.200	5.820	28,6
RECU-NOVO HCT 320	4.400	11,4	13.100	2.700	14.800	17.500	2.200	19,6	14.400	12.200	27.500	5.720	26,4
RECU-NOVO HCP 320	4.400	11,4	6.140	1.300	14.800	16.100	8.500	17,1	14.400	12.200	18.340	7.460	28,5
RECU-NOVO HCT 400	5.100	13,3	16.090	3.400	19.220	22.620	3.880	19,3	18.700	15.960	34.790	7.150	26,4
RECU-NOVO HCP 400	5.100	13,3	7.530	1.590	19.220	20.810	11.520	16,9	18.700	15.960	23.490	9.670	28,6

1. Compressor electrical features: 400V 50 Hz (III~).

2. Winter: outside air condition is considered -5°C while air room condition as 20°C. Summer: outside air condition is considered 32°C while air room condition as 20°C.

3. Evaporator power/evaporating temperature 5°C, condensating temperature 45°C.

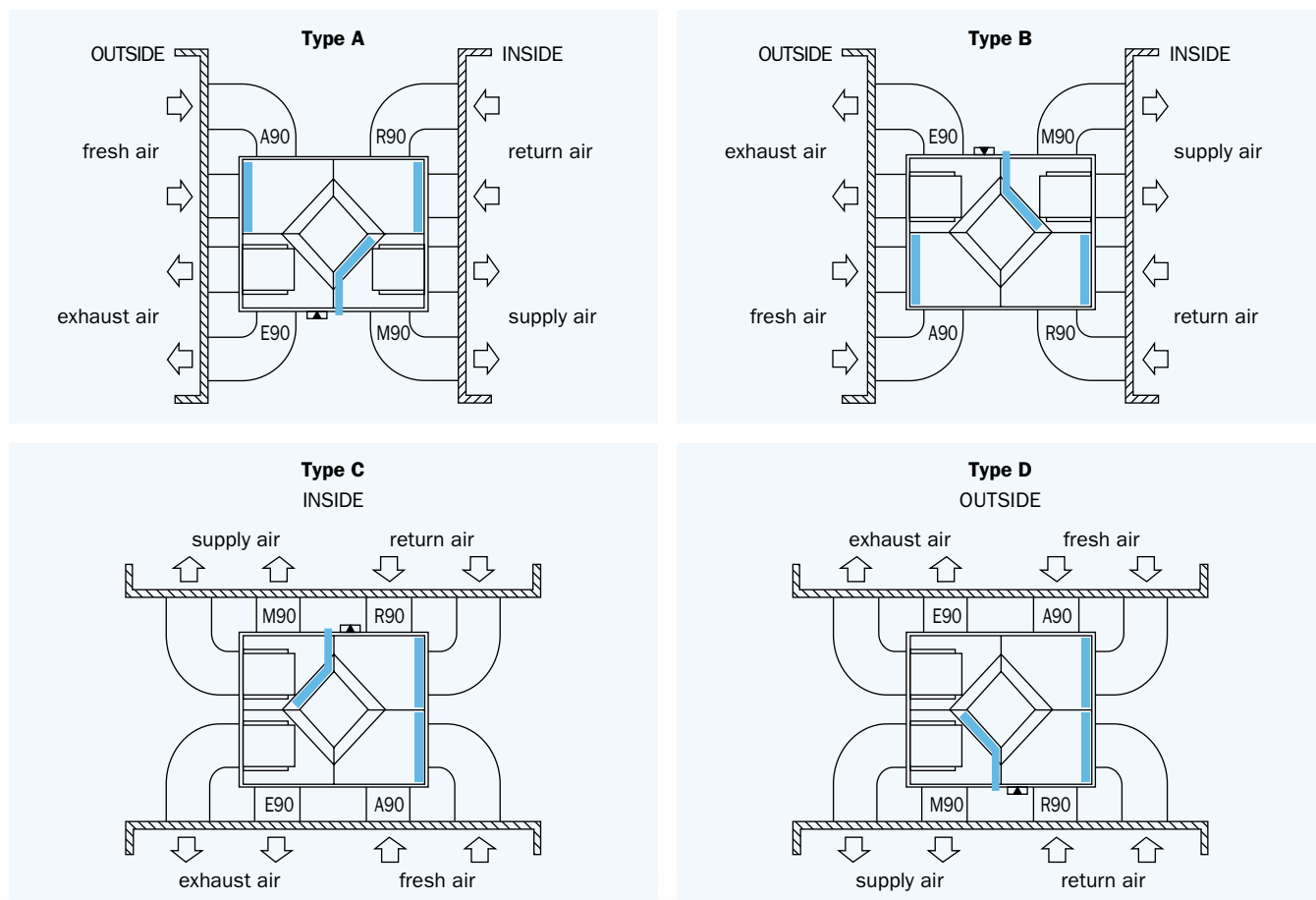
4. Condenser power/evaporating temperature -2,5°C, condensating temperature 45°C.

5. Condenser power/evaporating temperature -7,5°C, condensating temperature 45°C.



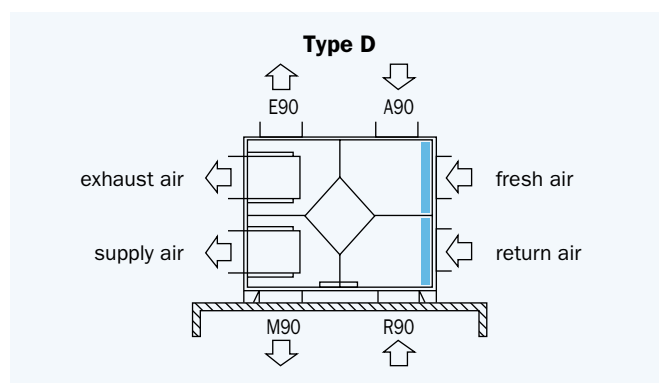
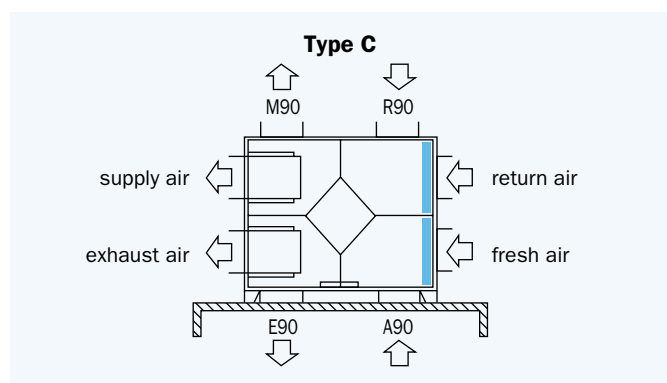
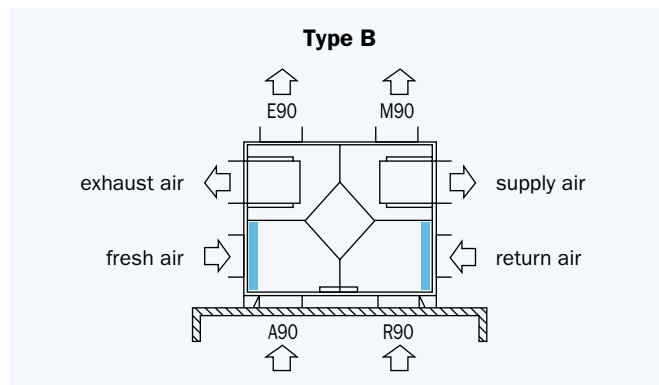
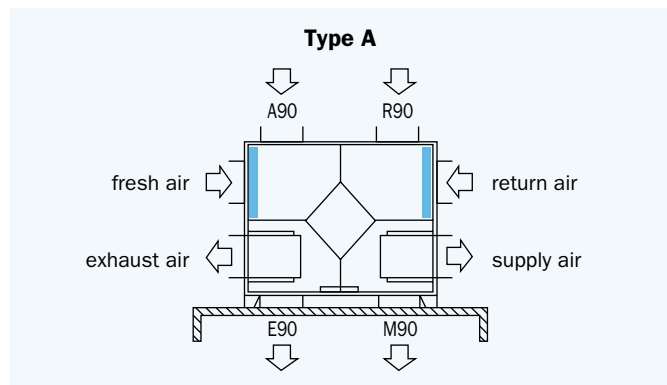
RECU-NOVO / RECU-NOVO F (to consult possible configurations)

Horizontal unit

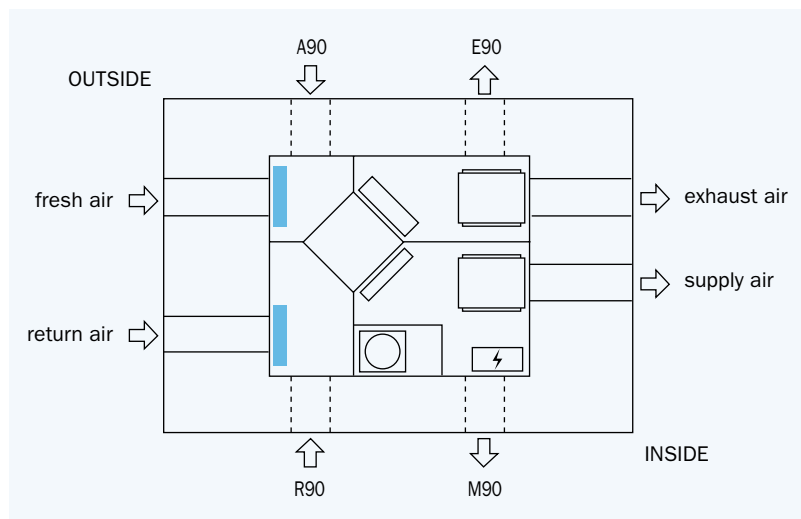


RECU-NOVO / RECU-NOVO F (to consult possible configurations)

Vertical unit



RECU-NOVO HC



RECU-NOVO

1 m free field	Frequency							dB (A)
	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	
RECU-NOVO 30	20,5	34,4	40,2	39,5	47,5	41,9	39,0	50,1
RECU-NOVO 50	22,5	35,0	41,0	41,0	50,0	45,0	41,0	52,4
RECU-NOVO 100	5,1	26,7	38,9	38,9	42,6	42,5	38,4	47,7
RECU-NOVO B 100	3,9	25,5	37,7	37,7	41,4	41,3	37,2	46,5
RECU-NOVO 140	20,9	35,3	44,9	46,1	46,1	44,9	42,4	52,2
RECU-NOVO B 140	20,4	34,8	44,4	45,6	45,6	44,4	41,9	51,7
RECU-NOVO 190	12,4	35,7	44,9	43,6	46,9	46,1	42,8	52,2
RECU-NOVO B 190	11,6	34,9	44,1	42,8	46,1	45,3	42,0	51,4
RECU-NOVO 250	21,1	38,6	44,7	42,0	46,8	45,2	41,0	51,7
RECU-NOVO 320	20,5	40,1	49,7	44,3	47,4	45,9	42,7	53,9
RECU-NOVO B 320	19,8	39,4	49,0	43,6	46,7	45,2	42,0	53,2
RECU-NOVO 400	20,8	37,0	47,3	43,9	50,2	46,8	44,9	54,3
RECU-NOVO B 400	20,5	36,7	47,0	43,6	49,9	46,5	44,6	54,0
RECU-NOVO 500	21,8	39,1	47,7	46,2	51,0	48,6	45,3	55,6
RECU-NOVO 600	22,9	40,2	48,8	47,3	52,1	49,7	46,4	56,7
RECU-NOVO B 600	22,3	39,6	48,2	46,7	51,5	49,1	45,8	56,1

1 m far from side	Frequency							dB (A)
	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	
RECU-NOVO 30	22,5	36,4	42,2	41,5	49,5	43,9	41,0	52,1
RECU-NOVO 50	24,5	37,0	43,0	43,0	52,0	47,0	43,0	54,4
RECU-NOVO 100	8,1	29,7	41,9	41,9	45,6	45,5	41,4	50,7
RECU-NOVO B 100	6,9	28,5	40,7	40,7	44,4	44,3	40,2	49,5
RECU-NOVO 140	21,9	36,3	45,9	47,1	47,1	45,9	43,4	53,2
RECU-NOVO B 140	21,4	35,8	45,4	46,6	46,6	45,4	42,9	52,7
RECU-NOVO 190	14,4	37,7	46,9	45,6	48,9	48,1	44,8	54,2
RECU-NOVO B 190	13,6	36,9	46,1	44,8	48,1	47,3	44,0	53,4
RECU-NOVO 250	24,1	41,6	47,7	45,0	49,8	48,2	44,0	54,7
RECU-NOVO 320	23,5	43,1	52,7	47,3	50,4	48,9	45,7	56,9
RECU-NOVO B 320	22,8	42,4	52,0	46,6	49,7	48,2	45,0	56,2
RECU-NOVO 400	23,8	40,0	50,3	46,9	53,2	49,8	47,9	57,3
RECU-NOVO B 400	23,5	39,7	50,0	46,6	52,9	49,5	47,6	57,0
RECU-NOVO 500	24,8	42,1	50,7	49,2	54,0	51,6	48,3	58,6
RECU-NOVO 600	25,9	43,2	51,8	50,3	55,1	52,7	49,4	59,7
RECU-NOVO B 600	25,3	42,6	51,2	49,7	54,5	52,1	48,8	59,1

Intake	Frequency							dB (A)
	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	
RECU-NOVO 30	29,5	43,4	49,2	48,5	56,5	50,9	48,0	59,1
RECU-NOVO 50	31,5	44,0	50,0	50,0	59,0	54,0	50,0	61,4
RECU-NOVO 100	15,1	36,7	48,9	48,9	52,6	52,5	48,4	57,7
RECU-NOVO B 100	18,6	40,2	52,4	52,4	56,1	56,0	51,9	56,5
RECU-NOVO 140	31,9	46,3	55,9	57,1	57,1	55,9	53,4	63,2
RECU-NOVO B 140	34,6	49,0	58,6	59,8	59,8	58,6	56,1	62,7
RECU-NOVO 190	24,4	47,7	56,9	55,6	58,9	58,1	54,8	64,2
RECU-NOVO B 190	28,8	52,1	61,3	60,0	63,3	62,5	59,2	63,4
RECU-NOVO 250	34,1	51,6	57,7	55,0	59,8	58,2	54,0	64,7
RECU-NOVO 320	33,5	53,1	62,7	57,3	60,4	58,9	55,7	66,9
RECU-NOVO B 320	40,7	60,3	69,9	64,5	67,6	66,1	62,9	66,2
RECU-NOVO 400	33,8	50,0	60,3	56,9	63,2	59,8	57,9	67,3
RECU-NOVO B 400	38,8	55,0	65,3	61,9	68,2	64,8	62,9	67,0
RECU-NOVO 500	68,6	68,6	68,6	68,6	68,6	68,6	68,6	68,6
RECU-NOVO 600	69,7	69,7	69,7	69,7	69,7	69,7	69,7	69,7
RECU-NOVO B 600	69,1	69,1	69,1	69,1	69,1	69,1	69,1	69,1

RECU-NOVO F

1 m free field	Frequency							dB (A)
	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	
RECU-NOVO F 140	20,0	34,4	44,0	45,2	45,2	44,0	41,5	51,3
RECU-NOVO BF 140	19,5	33,9	43,5	44,7	44,7	43,5	41,0	50,8
RECU-NOVO F 190	12,4	35,7	44,9	43,6	46,9	46,1	42,8	53,9
RECU-NOVO BF 190	13,3	36,6	45,8	44,5	47,8	47,0	43,7	53,1
RECU-NOVO F 250	21,1	38,6	44,7	42,0	46,8	45,2	41,0	51,8
RECU-NOVO F 320	20,5	40,1	49,7	44,3	47,4	45,9	42,7	54,5
RECU-NOVO BF 320	20,4	40,0	49,6	44,2	47,3	45,8	42,6	53,8
RECU-NOVO F 400	20,8	37,0	47,3	43,9	50,2	46,8	44,9	56,2
RECU-NOVO BF 400	22,4	38,6	48,9	45,5	51,8	48,4	46,5	55,9
RECU-NOVO F 500	21,7	39,9	48,8	46,5	50,0	48,3	45,3	55,4
RECU-NOVO F 600	23,1	41,3	50,2	47,9	51,4	49,7	46,7	56,8
RECU-NOVO BF 600	22,5	40,7	49,6	47,3	50,8	49,1	46,1	56,2

1 m far from side	Frequency							dB (A)
	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	
RECU-NOVO F 140	21,0	35,4	45,0	46,2	46,2	45,0	42,5	52,3
RECU-NOVO BF 140	20,5	34,9	44,5	45,7	45,7	44,5	42,0	51,8
RECU-NOVO F 190	14,4	37,7	46,9	45,6	48,9	48,1	44,8	55,9
RECU-NOVO BF 190	15,3	38,6	47,8	46,5	49,8	49,0	45,7	55,1
RECU-NOVO F 250	24,1	41,6	47,7	45,0	49,8	48,2	44,0	54,8
RECU-NOVO F 320	23,5	43,1	52,7	47,3	50,4	48,9	45,7	57,4
RECU-NOVO BF 320	23,3	42,9	52,5	47,1	50,2	48,7	45,5	56,7
RECU-NOVO F 400	23,8	40,0	50,3	46,9	53,2	49,8	47,9	59,2
RECU-NOVO BF 400	25,4	41,6	51,9	48,5	54,8	51,4	49,5	58,9
RECU-NOVO F 500	24,7	42,9	51,8	49,5	53,0	51,3	48,3	58,4
RECU-NOVO F 600	26,1	44,3	53,2	50,9	54,4	52,7	49,7	59,8
RECU-NOVO BF 600	25,5	43,7	52,6	50,3	53,8	52,1	49,1	59,2

Intake	Frequency							dB (A)
	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	
RECU-NOVO F 140	34,2	48,6	58,2	59,4	59,4	58,2	55,7	62,3
RECU-NOVO BF 140	33,7	48,1	57,7	58,9	58,9	57,7	55,2	61,8
RECU-NOVO F 190	24,4	47,7	56,9	55,6	58,9	58,1	54,8	65,9
RECU-NOVO BF 190	30,5	53,8	63,0	61,7	65,0	64,2	60,9	65,1
RECU-NOVO F 250	34,1	51,6	57,7	55,0	59,8	58,2	54,0	64,8
RECU-NOVO F 320	33,5	53,1	62,7	57,3	60,4	58,9	55,7	67,4
RECU-NOVO BF 320	41,2	60,8	70,4	65,0	68,1	66,6	63,4	66,7
RECU-NOVO F 400	33,8	50,0	60,3	56,9	63,2	59,8	57,9	69,2
RECU-NOVO BF 400	40,7	56,9	67,2	63,8	70,1	66,7	64,8	68,9
RECU-NOVO F 500	68,4	68,4	68,4	68,4	68,4	68,4	68,4	68,4
RECU-NOVO F 600	69,8	69,8	69,8	69,8	69,8	69,8	69,8	69,8
RECU-NOVO BF 600	69,2	69,2	69,2	69,2	69,2	69,2	69,2	69,2

RECU-NOVO HC

1 m free field	Frequency							dB (A)
	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	
RECU-NOVO HC 140	20,2	34,6	44,2	45,4	45,4	44,2	41,7	51,5
RECU-NOVO HC 190	12,4	35,7	44,9	43,6	46,9	46,1	42,8	54,3
RECU-NOVO HC 250	21,1	38,6	44,7	42,0	46,8	45,2	41,0	51,2
RECU-NOVO HC 320	20,5	40,1	49,7	44,3	47,4	45,9	42,7	52,4
RECU-NOVO HC 400	20,8	37,0	47,3	43,9	50,2	46,8	44,9	54,8

1 m far from side	Frequency							dB (A)
	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	
RECU-NOVO HC 140	21,2	35,6	45,2	46,4	46,4	45,2	42,7	52,5
RECU-NOVO HC 190	14,4	37,7	46,9	45,6	48,9	48,1	44,8	56,3
RECU-NOVO HC 250	24,1	41,6	47,7	45,0	49,8	48,2	44,0	54,2
RECU-NOVO HC 320	23,5	43,1	52,7	47,3	50,4	48,9	45,7	56,4
RECU-NOVO HC 400	23,8	40,0	50,3	46,9	53,2	49,8	47,9	57,8

Intake	Frequency							dB (A)
	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	
RECU-NOVO HC 140	34,4	48,8	58,4	59,6	59,6	58,4	55,9	62,5
RECU-NOVO HC 190	24,4	47,7	56,9	55,6	58,9	58,1	54,8	66,3
RECU-NOVO HC 250	34,1	51,6	57,7	55,0	59,8	58,2	54,0	64,2
RECU-NOVO HC 320	33,5	53,1	62,7	57,3	60,4	58,9	55,7	66,4
RECU-NOVO HC 400	33,8	50,0	60,3	56,9	63,2	59,8	57,9	67,8



RG

Fan speed control

Suitable for wall installation, it allows to select one of the possible fan speeds.



RR

Unit control panel

Suitable for wall installation, it allows to control the room temperature and to select the fan speed.



SCA

CO₂ sensor

Sensor for working only with inverter heat recovery units. Allow to regulate the airflow in relation to CO₂ concentration.



DPS

Differential pressure sensor

Sensor for working only with inverter heat recovery units. Making possible constant airflow.



SNT

Remotable temperature sensor



SVC

On/off damper servocontrol

It is suitable for damper control; the power supply is 230V single phase. It is fitted with automatic spring back.



RQ

Regulador integrado

It's composed of an electrical board, a microprocessor controller, n°03 NTC temperature sensors and a LCD remote control panel. The casing containing them is put on a side in place of the middle panel.

Electronic control services:

- Heating/cooling/free-cooling mode
- Antifreeze mode
- Electric heater on/off mode
- BMS mediante protocolo Modbus.



PR

Recovery unit pressure sensor

Gives a tension free signal when filters achieve maximum pressure lost.



TAG

Antifreeze thermostat

It can be used everywhere temperature must not drop below a certain fixed safety value.



KVV

Way water valve

Combined with RR or RQ controls and suitable for W and WA control, the set is composed of a 3-way valve and 230V servomotor.



MI

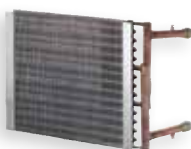
Inverter motor

Control system to keep the constant airflow in the units RECU-NOV HC. Mandatory when we want the units with filters or we are not sure about the pressure drop in the installation.

**RE****Electric heater**

It takes place inside the unit as preheater or reheater or both in the fresh air circuit, as defrost system in the return circuit.

It is complete of control relay and safety thermostat.

**W****Re-heating water coil**

It takes place inside the unit after the heat recovery in the supply circuit and it is useful as a hot water reheater to avoid too low supply temperature. It's not suitable for cooling working mode.

**WA****Cooling section**

It's an insulated box with a coil inside and takes place between the unit and the supply duct, useful as an air cooler, even suitable as a reheater; the condensate outlet ($\frac{1}{2}$ " GAS female threaded) is on the bottom through a stainless steel drain tray.

**KE****Cooling section**

It's an insulated box with a coil inside and takes place between the unit and the supply duct, useful as an air cooler, even suitable as a reheater; the condensate outlet ($\frac{1}{2}$ " GAS female threaded) is on the bottom through a stainless steel drain tray.

**FT/FT-HC/FT-PL****Filters**

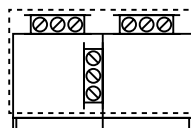
Available from 140 model, it increases the unit filtering capacity. Made from synthetic material, it is put inside the unit, in the same frame of the G4 prefilter.

**BC****Circular duct connection**

It allows the connection between the unit and the air plant fitted with circular joints or ducts; it can be installed both on the air inlets and outlets.

**FX****Flexible duct join**

It allows the flexible connection between the unit and the air ducts, to cut off the transmission of the mechanical vibrations due to the mobile parts of the unit.

**MR****Way mixing box**

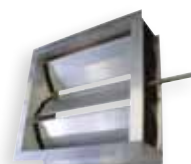
It can be used when recirculation working mode is needed, for example, for speeding-up the room temperature or for defrosting the recovery pack. Each of the three dampers can be controlled by an own servocontrol or all the three dampers by one servocontrol via a lever system. This section can match basic unit only on configuration A or B.

**PS****Support leggs**

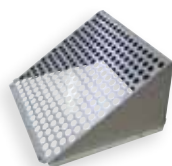
Support legs to raise the unit.

**RC/RC-HC****Roof cover**

The Aluzink roof cover is to be used when the unit is installed outdoor.

**CR/CR-PL****Adjusting damper**

It is necessary when air duct pressure drops must meet with external static pressure of supply and return fans. It is made from aluminium frame and aluminium contrasted paddles, controlled by handle lever or electrical servocontrol (not supplied).

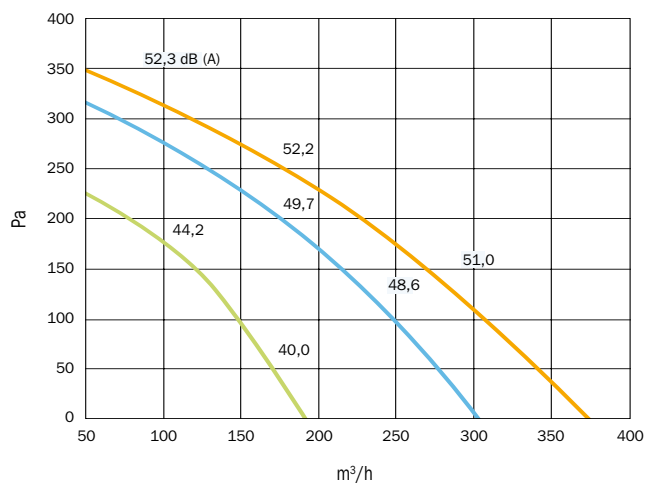
**MA****Casing with anti-bird net**

Protects at both sides of the fan (extract/supply) and prevents external items from getting inside the fan.

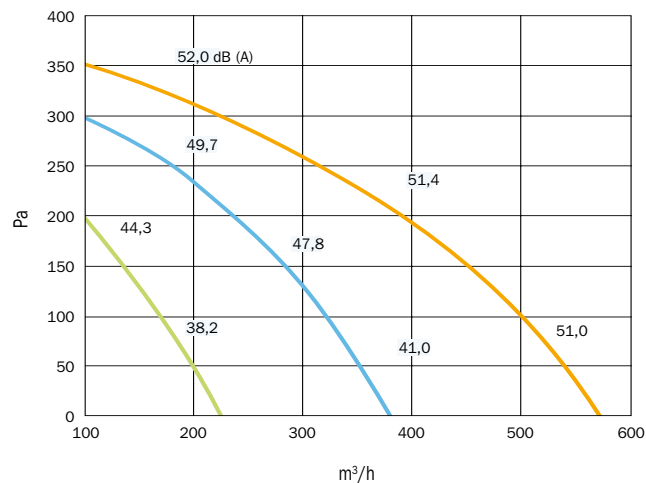
**REA****Electrical heater section**

It takes place inside the unit as a preheater or reheater or both.

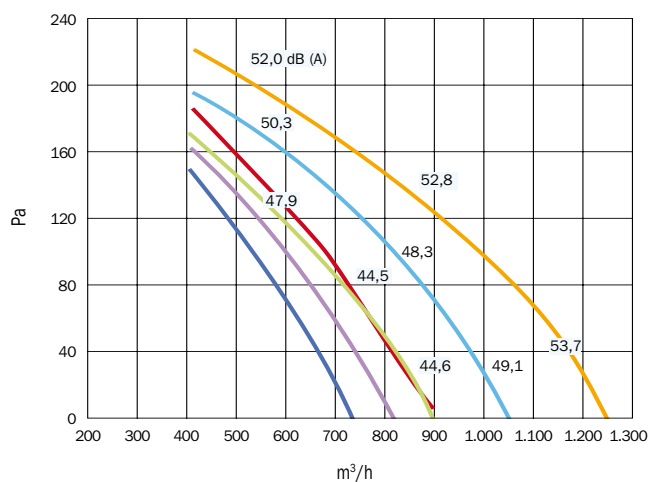
RECU-NOVO 30



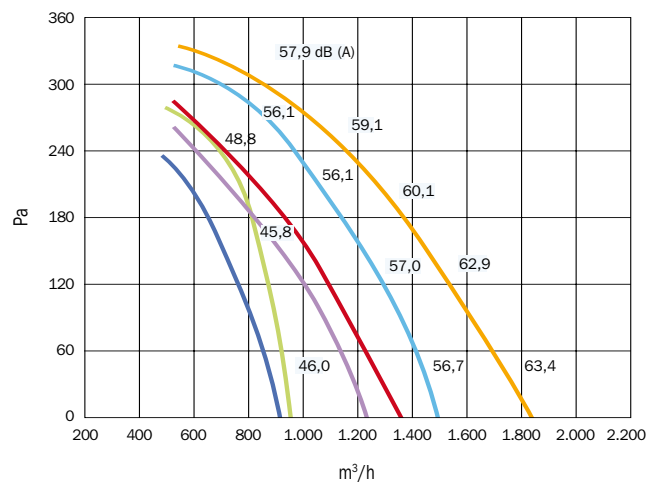
RECU-NOVO 50



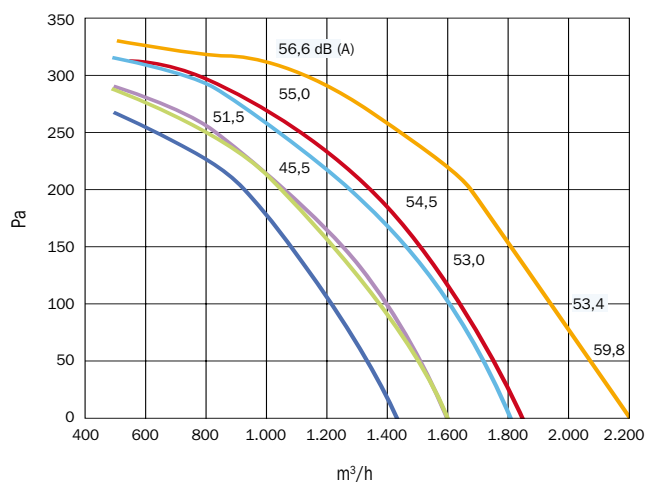
RECU-NOVO 100



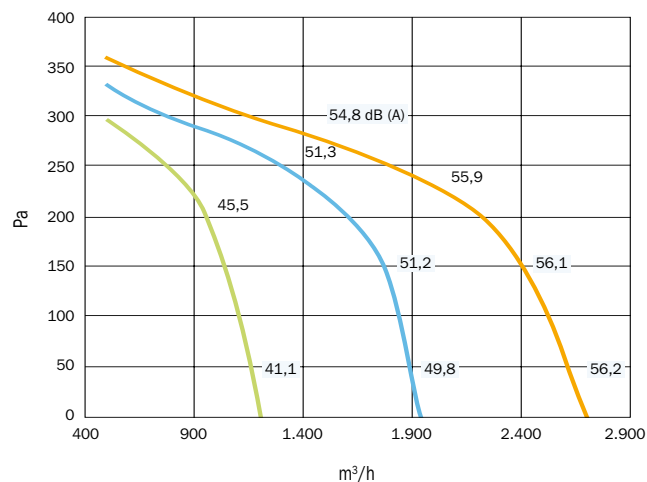
RECU-NOVO 140



RECU-NOVO 190



RECU-NOVO 250

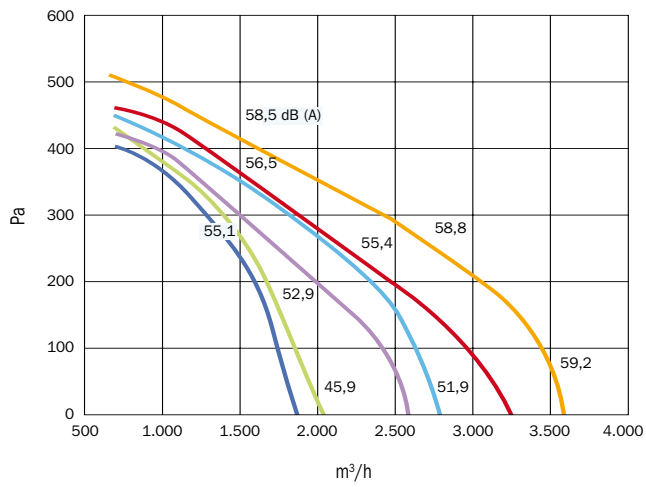


maximum speed
 RECU-NOVO
 RECU-NOVO B

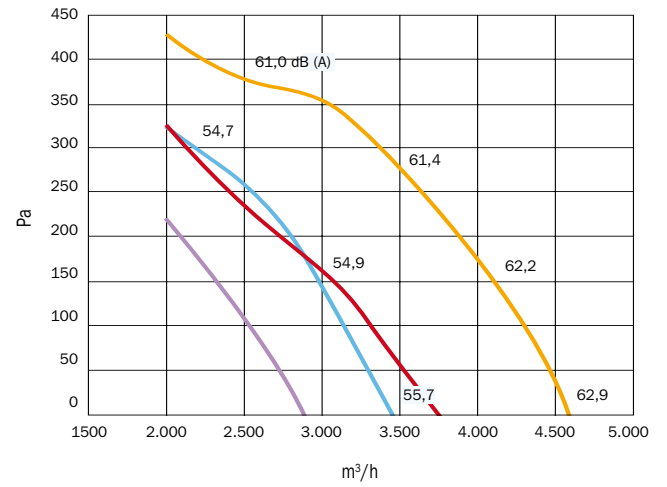
medium speed
 RECU-NOVO
 RECU-NOVO B

low speed
 RECU-NOVO
 RECU-NOVO B

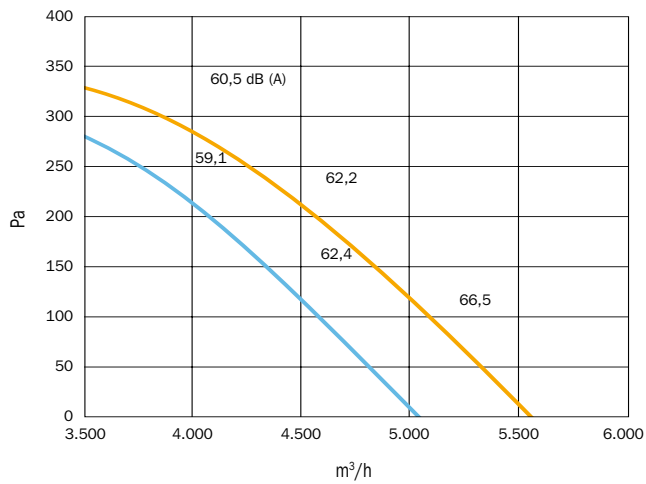
RECU-NOVO 320



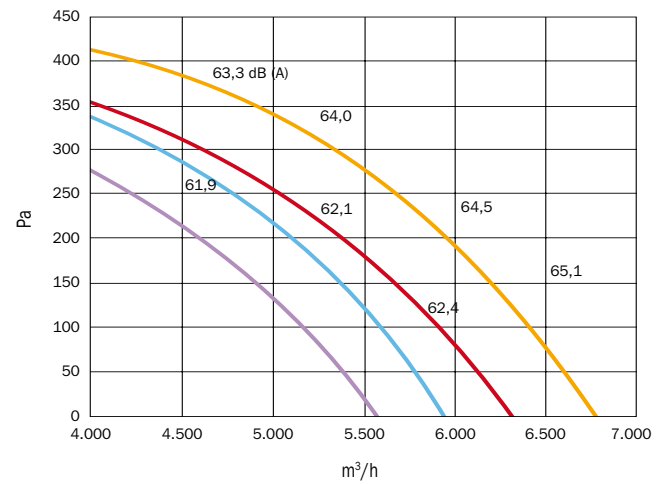
RECU-NOVO 400



RECU-NOVO 500



RECU-NOVO 600



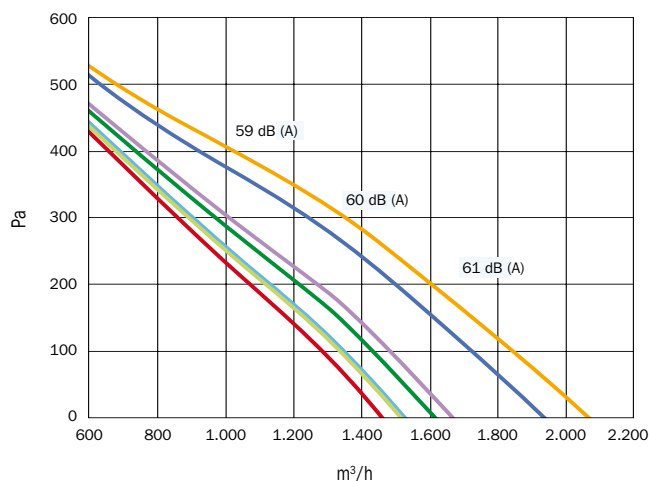
maximum speed
 RECU-NOVO
 RECU-NOVO B

medium speed
 RECU-NOVO
 RECU-NOVO B

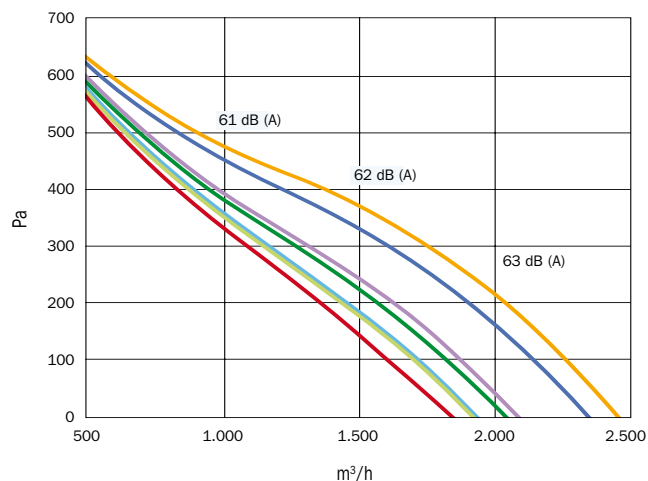
low speed
 RECU-NOVO
 RECU-NOVO B



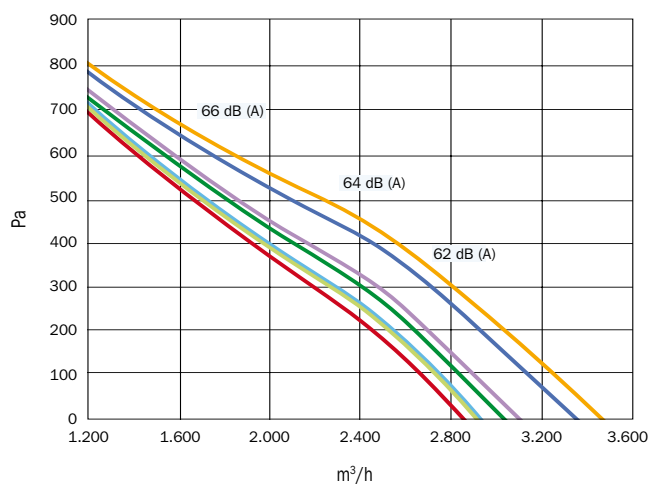
RECU-NOVO F 140



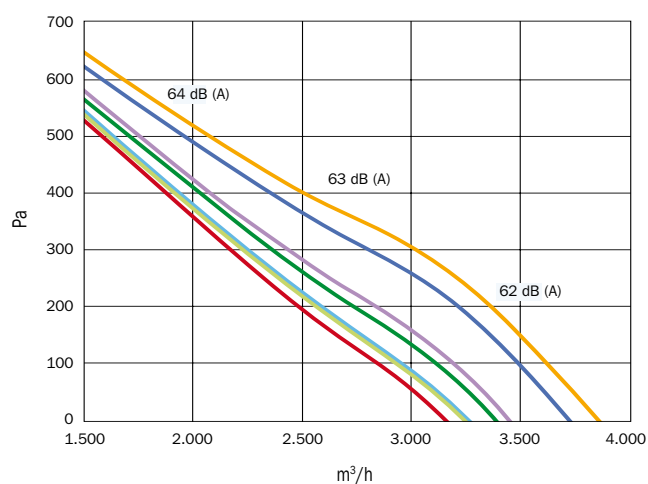
RECU-NOVO F 190



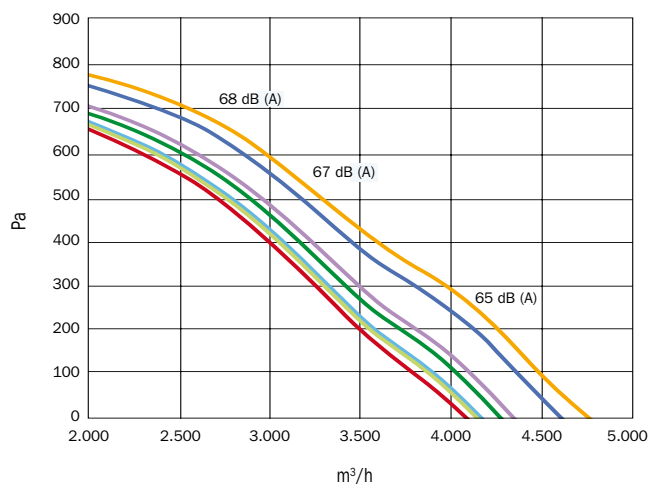
RECU-NOVO F 250



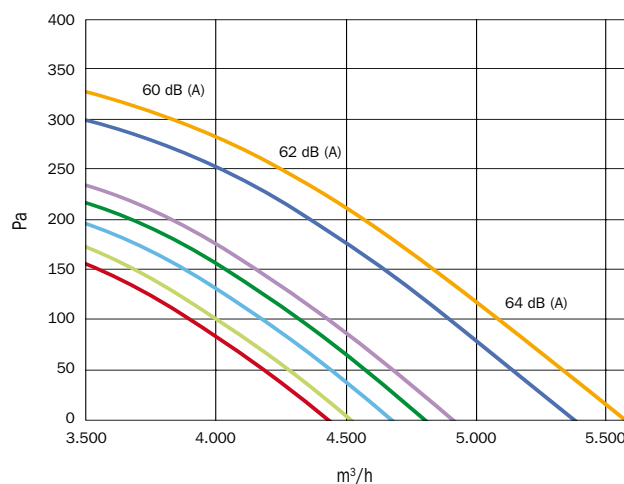
RECU-NOVO F 320



RECU-NOVO F 400

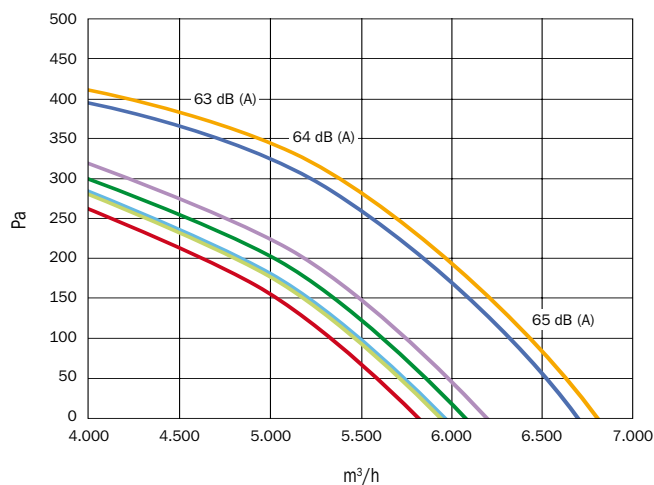


RECU-NOVO F 500

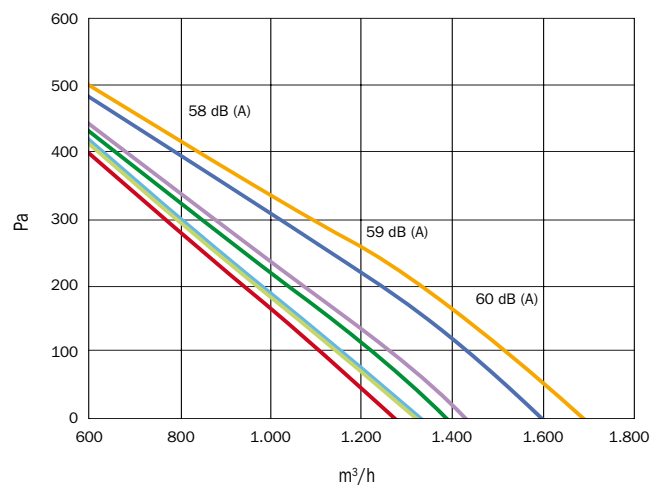


- With inverter motor and filter G4
- With inverter motor and filter F6
- With inverter motor and filter G4+F6
- With inverter motor and filter G4+F7
- With inverter motor and filter G4+F8
- With inverter motor and filter F6+F7
- With inverter motor and filter F6+F8

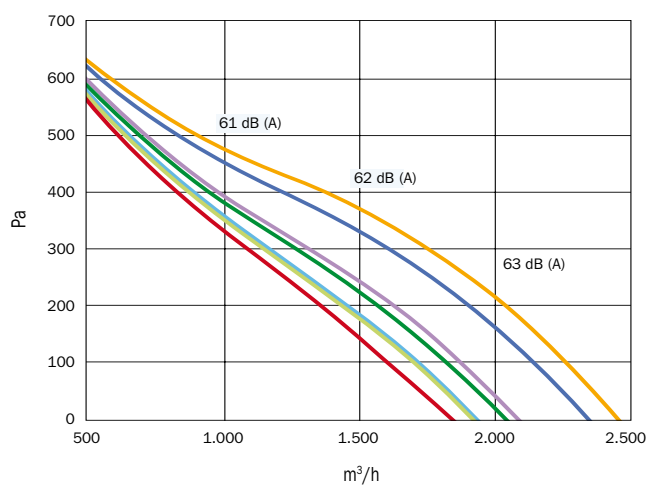
RECU-NOVO F 600



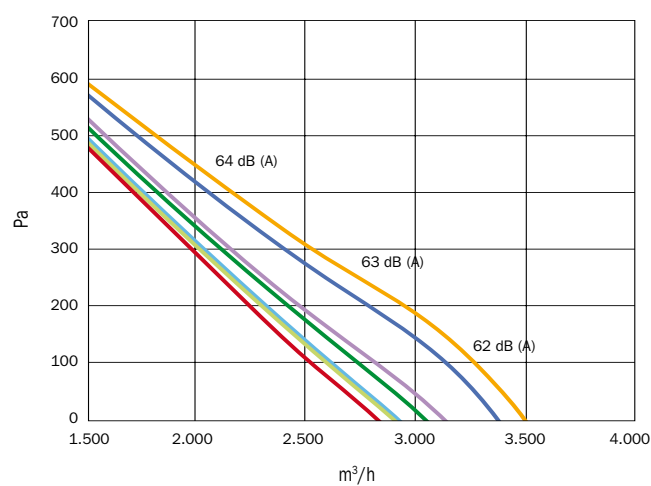
RECU-NOVO BF 140



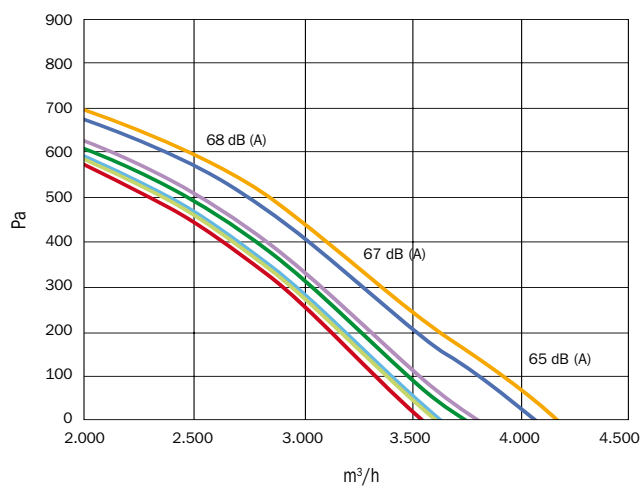
RECU-NOVO BF 190



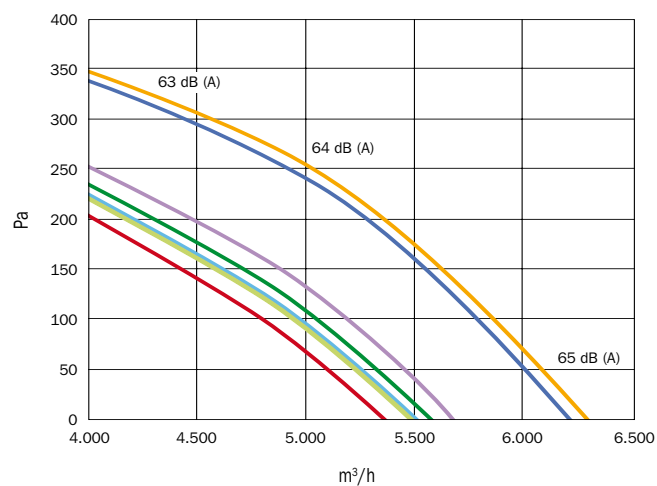
RECU-NOVO BF 320



RECU-NOVO BF 400



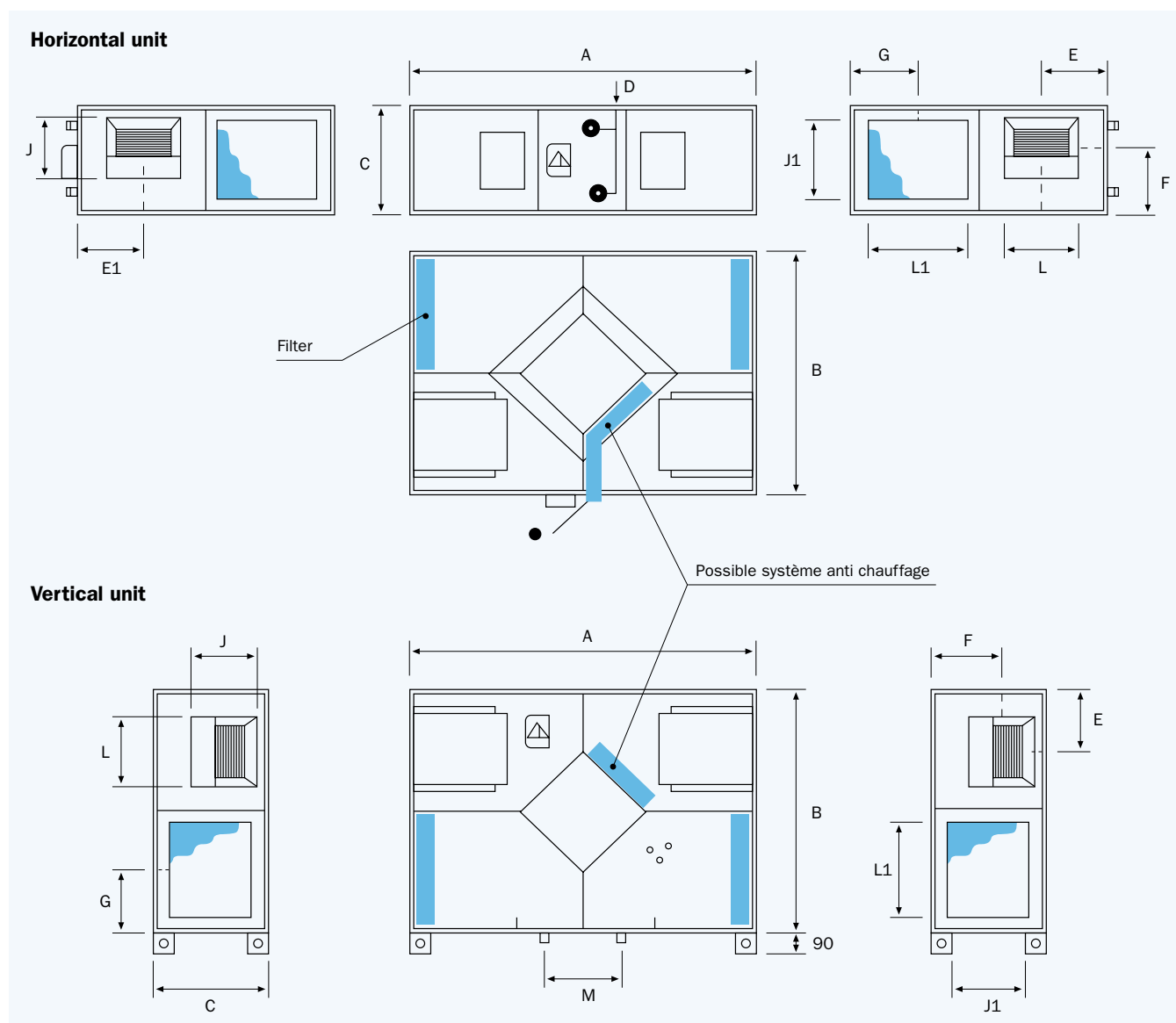
RECU-NOVO BF 600



- With inverter motor and filter G4
- With inverter motor and filter F6
- With inverter motor and filter G4+F6
- With inverter motor and filter G4+F7

- With inverter motor and filter G4+F8
- With inverter motor and filter F6+F7
- With inverter motor and filter F6+F8

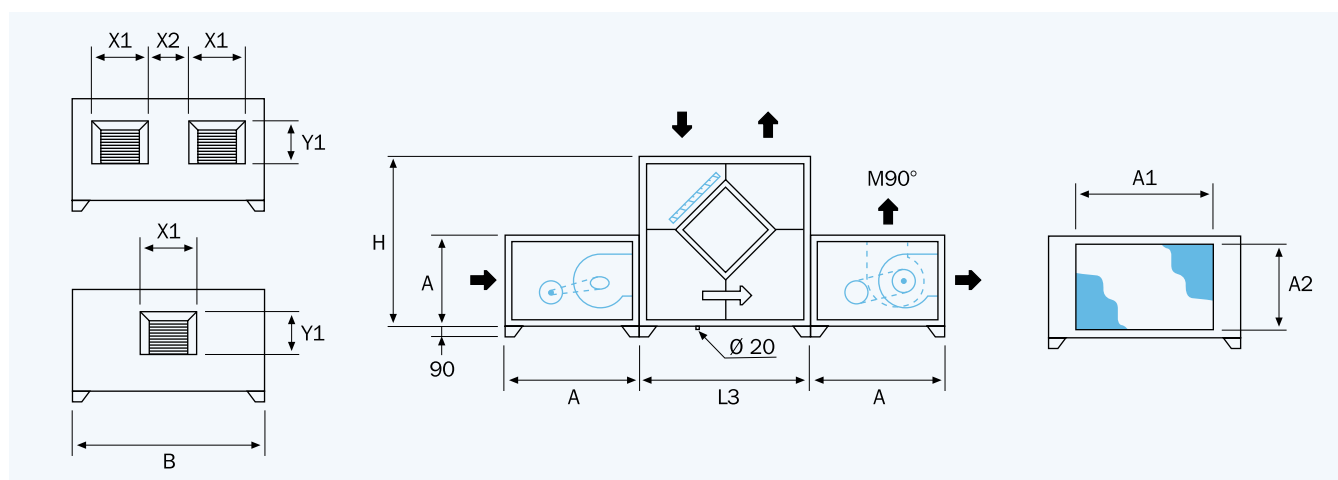
RECU-NOVO / RECU-NOVO F



	A	B	C	D	E	E1	F	G	J	J1	L	L1	M	Kg RECU-NOVO	Kg RECU-NOVO F
30	990	750	270	-	195	240	170	197	100	153	162	275	119	39	-
50	990	750	270	-	195	197	170	197	100	153	162	275	119	41	-
100	1.150	860	385	230	245	205	238	225	218	267	240	330	81	68	-
140	1.350	900	410	230	241	241	224	241	270	267	240	337	81	91	101/107
190	1.450	900	470	280	241	241	284	241	270	327	240	337	81	99	109/115
250	1.700	1.230	490	305	323	323	290	323	270	347	306	502	131	140	150/157
320	1.700	1.230	530	305	308	345	331	323	297	387	339	502	101	155	165/172
400	1.700	1.230	630	405	308	345	377	323	297	487	339	502	101	179	182/197
500	1.700	1.350	705	480	353 H 278 V	353	427 H 353 V	353	297 H 339 V	555	339 H 297 V	555	101	235	245/253
600	1.900	1.450	755	530	379 H 334 V	379	419 H 379 V	379	350 H 403 V	615	403 H 350 V	615	101	273	283/291

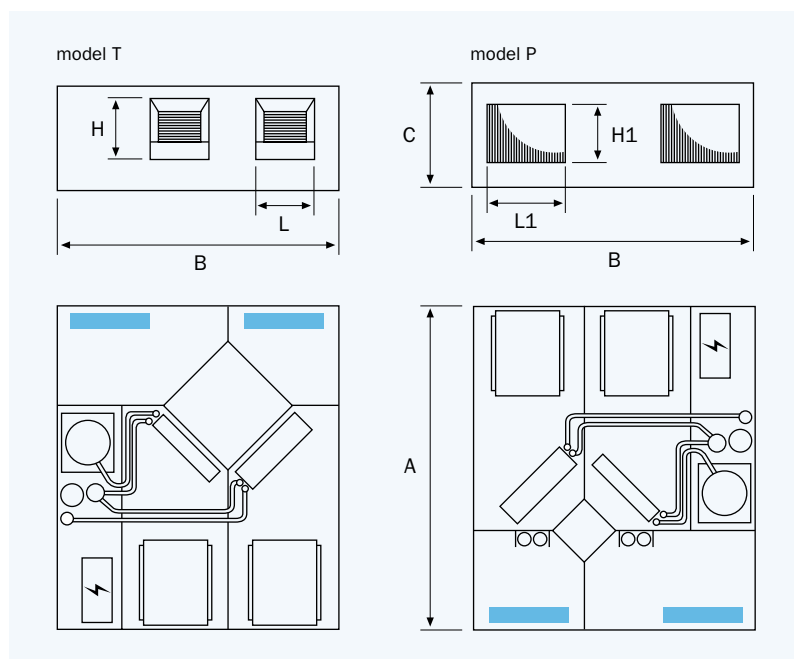
H = Horizontal unit
V = Vertical unit

RECU-NOVO PLUS



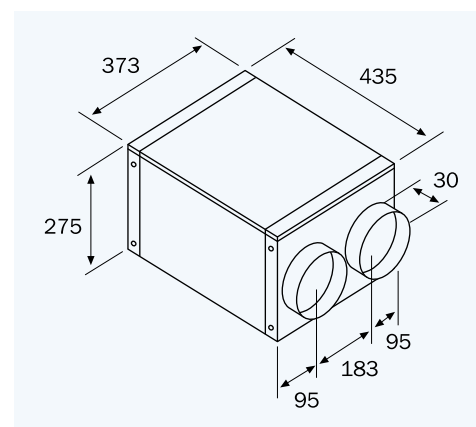
	A	B	L3	H	X1	X2	Y1	A1	A2
RECU-NOVO PLUS 800	870	1.530	1.540	1.540	480	-	410	1.470	810
RECU-NOVO PLUS 1000	1.110	1.530	1.780	1.780	560	-	480	1.470	1.050
RECU-NOVO PLUS 1250	1.180	1.850	1.890	1.890	480	390	410	1.770	1.100
RECU-NOVO PLUS 1500	1.320	2.100	2.030	2.030	560	460	480	2.020	1.240

RECU-NOVO HC



	A	B	C	L	H	L1	H1	kg
140	1.450	1.230	470	240	270	337	267	212
190	1.450	1.230	470	240	270	337	327	225
250	1.700	1.560	530	306	270	502	347	247
320	1.700	1.560	530	339	297	502	387	258
400	1.700	1.560	630	339	297	502	487	279

RECU-NOVO 10





NOVOVENT

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