



Technical Features



Range
Up to 4,2 m



Heating types
Heat Pump
Gas R32



Casing
Galvanised Steel
Self-Supporting



Airflow / Length
1640 - 5840 m³/h
1m to 3m



Heating capacity
8 - 28 kW



Grille type
Micro-perforated with
pre-filter included



Fans
Centrifugal
5-speed



Control
Plug&Play Advanced PRO
+ IR remote control
(Optional Clever Pro)



Outlet vanes
Aluminium, airfoil type
Adjustable 0-15° each side

RAL 9016
standard



Stainless
steel



Other colors
on request



WINDBOX air curtains range provide equipment suitable for all types of commercial entrances. A compact and robust air curtain from our standard range with a timeless design, ready for visible installation over the door and prepared for multiple false ceiling installation configurations.

In heating, it reduces consumption and CO2 emissions by up to 70%.

Sensors pre-installed in the direct expansion coil. As an option, under request, it can also work in cold mode (refrigeration), with optional condensate water pump.

Efficient EC centrifugal fans with low consumption, double inlet with external rotor motor and low noise level. Internal pre-filter included.

Advanced Plug&Play control. Includes: Advanced PRO control with LCD display and integrated thermostat, door contact, 7m RJ11 cable and remote control.

Ready to connect to HITACHI Inverter outdoor heat pump unit (R32) and expansion valve not included, the customer should purchase it.

Air curtain specifications

Model	Airflow m³/h	Fans power 230V-50/60Hz kW	Fans current 230V-50/60Hz A	Outdoor unit (*) 230Vx1	Outdoor unit (*) 400Vx3	Gas-Liquid pipe connections inch	Noise level (5 m) dB(A)	Weight kg
ECM 1000 DX8-HI	1640	0,142	1,24	RAS-3HVNC1	-	5/8" - 3/8"	56	35
ECM 1500 DX11-HI	2460	0,213	1,86	RAS-4HVNC1E	RAS-4HNC1E	5/8" - 3/8"	57	53
ECM 2000 DX16-HI	3280	0,284	2,48	RAS-6HVNC1E	RAS-6HNC1E	5/8" - 3/8"	58	69
ECM 2500 DX21-HI	4100	0,355	3,10	-	RAS-8HNCE	1" 1/8 - 3/8"	59	86
ECM 3000 DX26-HI	4920	0,426	3,72	-	RAS-10HNCE	1" - 1/2"	60	103
ECG 1000 DX8-HI	2190	0,213	1,86	RAS-3HVNC1	-	5/8" - 3/8"	61	50
ECG 1500 DX13-HI	2920	0,284	2,48	RAS-4HVNC1E	RAS-5HNC1E	5/8" - 3/8"	62	59
ECG 1500 DX15-HI	2920	0,284	2,48	RAS-6HVNC1E	RAS-6HNC1E	5/8" - 3/8"	62	59
ECG 2000 DX22-HI	4380	0,426	3,72	-	RAS-8HNCE	1" 1/8 - 3/8"	63	92
ECG 2500 DX22-HI	5110	0,497	4,34	-	RAS-8HNCE	1" 1/8 - 3/8"	64	96
ECG 2500 DX28-HI	5110	0,497	4,34	-	RAS-10HNCE	1" - 1/2"	64	96
ECG 3000 DX28-HI	5840	0,568	5,96	-	RAS-10HNCE	1" - 1/2"	65	109

Outdoor unit specifications

HITACHI Utopia IVX Comfort (*) outdoor unit model	Heating capacity kW	COP or SCOP	Cooling ca- pacity kW	EER or SEER	Voltage	Gas-liquid pipes inch	Maximum pipe length m	Maximum pipe height m
RAS-3HVNC1	8	4,00	7,1	3,14	230Vx1	5/8" - 3/8"	50	30
RAS-4HVNC1E	11,2	4,57	10	3,70	230Vx1	5/8" - 3/8"	70	30
RAS-4HNC1E	11,2	4,57	10	3,70	400Vx3	5/8" - 3/8"	70	30
RAS-5HVNC1E	14	3,89	12,5	3,37	230Vx1	5/8" - 3/8"	75	30
RAS-5HNC1	14	3,89	12,5	3,37	400Vx3	5/8" - 3/8"	75	30
RAS-6HVNC1E	16	3,73	14	3,26	230Vx1	5/8" - 3/8"	75	30
RAS-6HNC1E	16	3,73	14	3,26	400Vx3	5/8" - 3/8"	75	30
RAS-8HNCE	22,4	3,81	20	3,26	400Vx3	1" 1/8 - 3/8"	100	30
RAS-10HNCE	28	3,63	25	3,02	400Vx3	1" 1/8 - 3/8"	100	30

(*) Also compatible with outdoor units Utopia ES, VRF Centrifugal, Utopia IVX Premium. Energy efficiency: SCOP/SEER seasonal ≤12kW, COP/EER >12kW.

Outdoor unit capacities depending on standard conditions: heating 20°CDB indoor / 7°CDB and 6°CWB outdoor, cooling 27°CDB and 19°CWB indoor / 35°CDB outdoor.

When adverse weather conditions, the outdoor unit capacity can decrease. It is recommendable to oversize the units.



Technical Features




Range
Up to 4,2 m


Heating types
Heat Pump
Gas R410a


Casing
Galvanised Steel
Self-Supporting


Airflow / Length
1640 - 5840 m³/h
1m to 3m


Heating capacity
8 - 29 kW


Grille type
Micro-perforated with
pre-filter included


Fans
Centrifugal
5-speed


Control
Plug&Play Advanced PRO
+ IR remote control
(Optional Clever Pro)


Outlet vanes
Aluminium, airfoil type
Adjustable 0-15° each side

RAL 9016 standard  Stainless steel  Other colors on request 

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Sensors pre-installed in the direct expansion coil. As an option, under request, it can also work in cold mode (refrigeration), with optional condensate water pump. Efficient EC centrifugal fans with low consumption, double inlet with external rotor motor and low noise level. Internal pre-filter included.

Advanced Plug&Play control. Includes: Advanced PRO control with LCD display and integrated thermostat, door contact, 7m RJ11 cable and remote control.

Ready to connect to HITACHI VRF outdoor heat pump unit (R410A) and expansion valve not included, the customer should purchase it.

Air curtain specifications

Model	Airflow m³/h	Fans Power 230V-50/60Hz kW	Fans Current 230V-50/60Hz A	Kit VRF	Gas-Liquid pipe connections inch	Noise Level (5 m) dB(A)	Weight kg
ECM 1000 VRF8-HI	1640	0,142	1,24	EXV-3.0E2	5/8" - 3/8"	56	35
ECM 1500 VRF12-HI	2460	0,213	1,86	EXV-4.0E2	5/8" - 3/8"	57	53
ECM 2000 VRF16-HI	3280	0,284	2,48	EXV-6.0E2	5/8" - 3/8"	58	69
ECM 2000 VRF19-HI	3280	0,284	2,48	EXV-8.0E2	1" 1/8 - 1/2"	58	69
ECM 2500 VRF21-HI	4100	0,355	3,10	EXV-8.0E2	1" 1/8 - 1/2"	59	86
ECM 2500 VRF24-HI	4100	0,355	3,10	EXV-10.0E2	1" 1/8 - 1/2"	59	86
ECM 3000 VRF26-HI	4920	0,426	3,72	EXV-10.0E2	1" - 1/2"	60	103
ECG 1000 VRF10-HI	2190	0,213	1,86	EXV-4.0E2	5/8" - 3/8"	61	50
ECG 1500 VRF13-HI	2920	0,284	2,48	EXV-5.0E2	5/8" - 3/8"	62	59
ECG 1500 VRF15-HI	2920	0,284	2,48	EXV-6.0E2	5/8" - 3/8"	62	59
ECG 2000 VRF20-HI	4380	0,426	3,72	EXV-8.0E2	1" 1/8 - 1/2"	63	92
ECG 2000 VRF24-HI	4380	0,426	3,72	EXV-8.0E2	1" 1/8 - 1/2"	63	92
ECG 2500 VRF25-HI	5110	0,497	4,34	EXV-10.0E2	1" 1/8 - 1/2"	64	96
ECG 2500 VRF29-HI	5110	0,497	4,34	EXV-10.0E2	1" - 1/2"	64	96
ECG 3000 VRF29-HI	5840	0,568	5,96	EXV-10.0E2	1" - 1/2"	65	109

(*) Includes direct expansion valve.

VRF-compatible models are as follows:

- Utopia ES / Utopia IVX Confort
- VRF Centrifugal
- Utopia IVX Premium / Set Free Mini / Front Flow
- Set Free

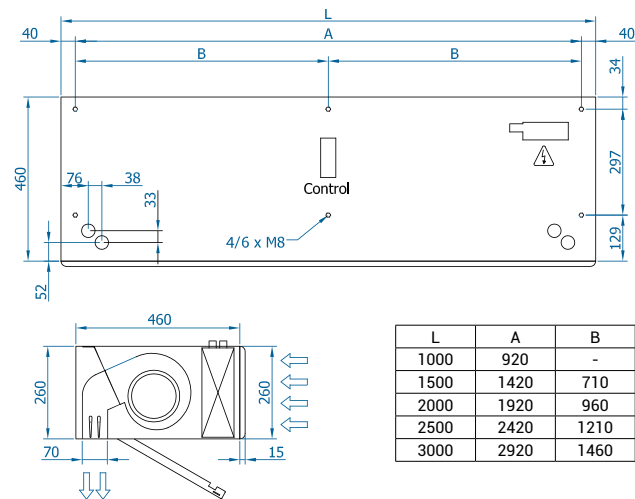


Selection program

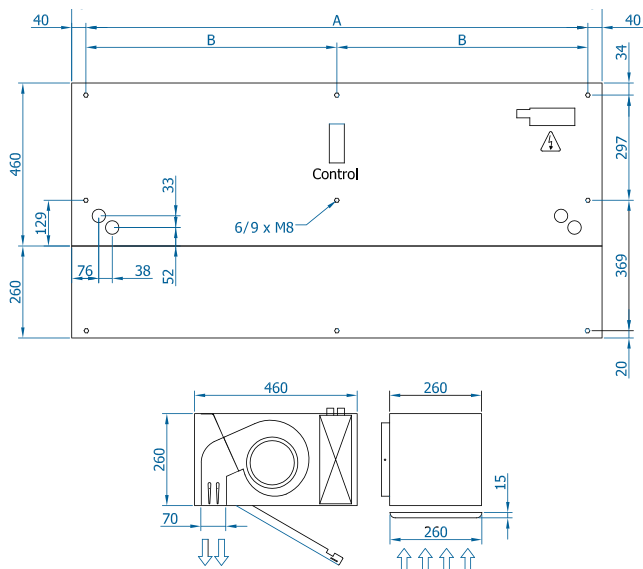


Dimensions

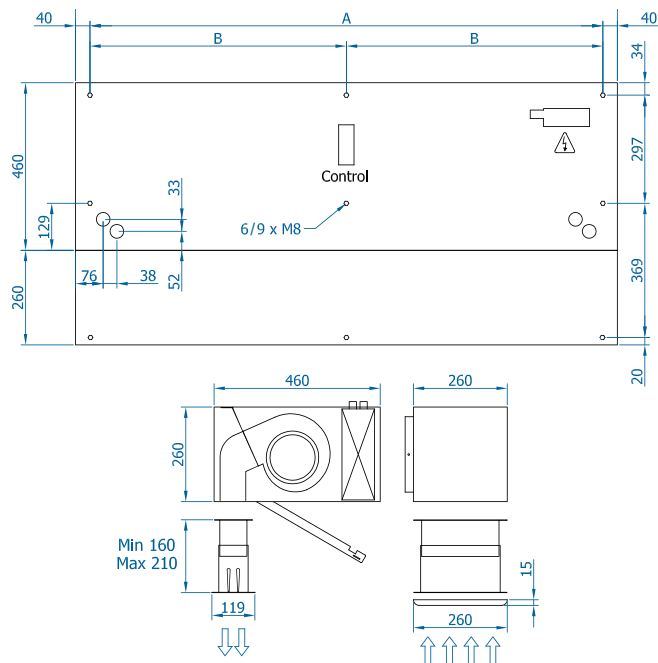
Horizontal free hanging Installation



Inside ceiling surface mounting



False ceiling invisible mounting

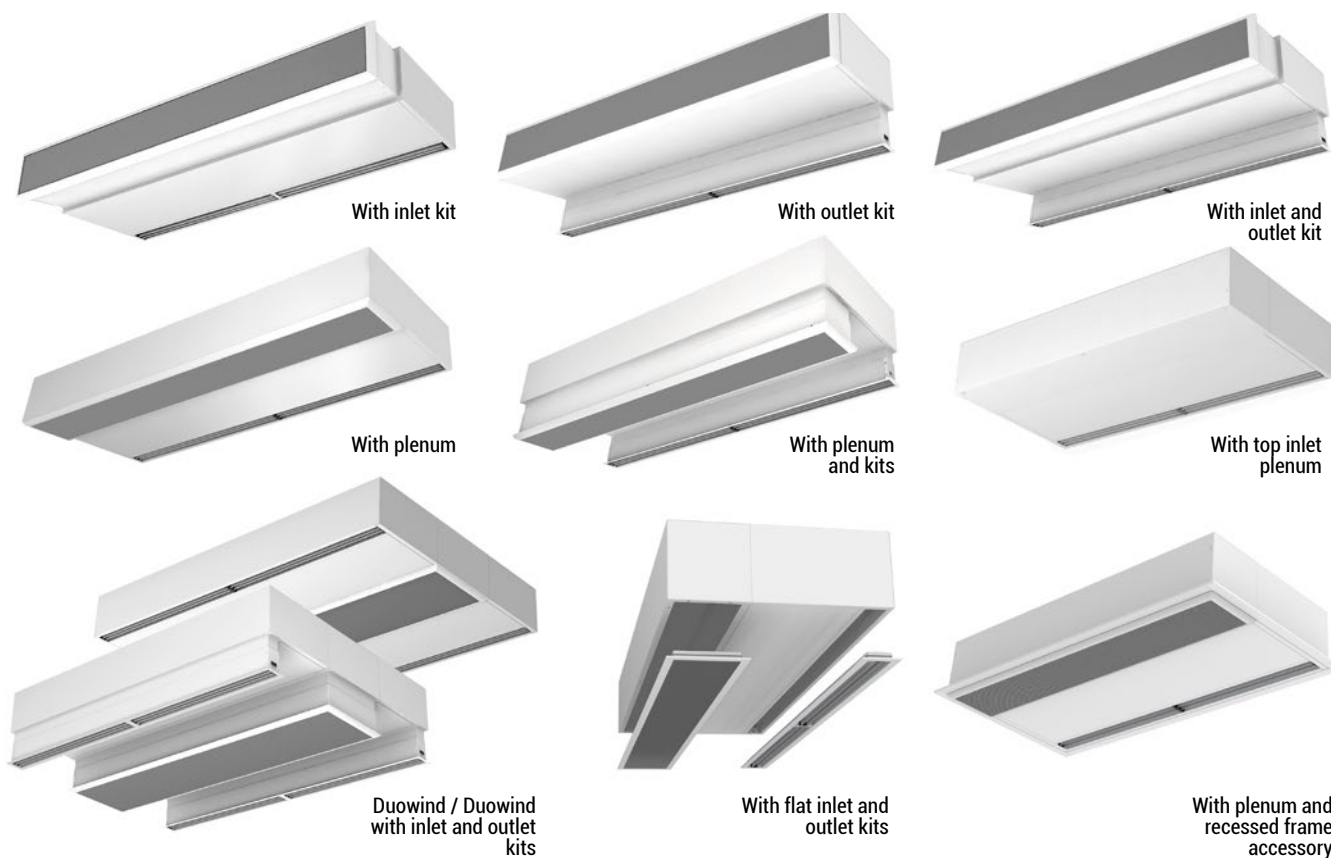


CAD drawings, BIM files, installation
manuals and other documents





Installation configurations



Accessories

Supports and installation



Wall rail support
SPWR



Silentblock supports
SPANG-SIL / SLB



Gripple hanger
SPCT

Control



ADVANCED PRO
✓ Included



IR Control
✓ Included



RJ11 Cable
✓ Included



CLEVER PRO

Sensors and valves



Magnetic door contact
DC



Mechanical door contact
DC



Condensate water pump
for DX air curtains