

Hitachi Air Conditioning

Engineered for tomorrow.

SYSTEM
FREE

-20
+15

-5
+46

DC
INVERTER

Utopia
Split Systems

Utopia IVX Premium

IVX Premium offers high seasonal efficiencies, and Hitachi's IVX technology has all the benefits of VRF, including individual control of each indoor unit with an increased number of twin, triple and quad combinations in addition to delivering excellent part-load efficiency.

With cooling capacities and heating capacities from 3.2kW to 37.5kW, a maximum of 8 indoor units are connectable to a single outdoor unit, with individual control and efficiencies achieved as high as A++/A+ (depending on model/combinations).



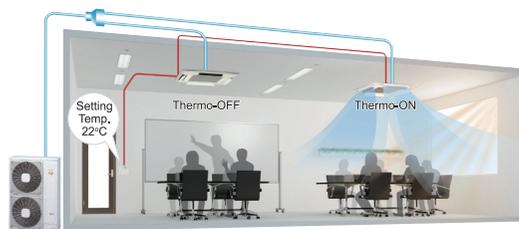
Comfort and ease of installation

Improved connectivity (up to 8 indoors per outdoor unit, minimising pipework required) and zone-by-zone individual control makes IVX Premium the perfect solution where VRF flexibility is needed but at a lower cost.

The individual Thermo-on and Thermo-off is possible even when the remote control is connected to multiple internal units.

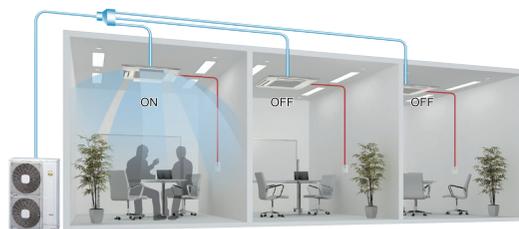
The system is able to handle changes in air conditioning needs for each individual space, e.g., internal zone or perimeter area, and thereby optimise energy efficiencies.

This produces a highly comfortable environment and great electricity savings.



Easily adaptable and reconfigurable

Each indoor unit can be operated completely independently within the same mode. Controlled from a dedicated remote controller, each room's occupants can monitor and adjust operating temperatures according to their specific requirements. This facilitates maximum energy savings and total future flexibility, as units have individual control regardless of possible future reorganisation of the interior spaces.



Compatibility with R22 pipework

New Utopia IVX Premium (and IVX Comfort) are compatible* with existing R22 gas installations. Both models – which use R410A refrigerant gas - can be installed without having to change the existing installed piping as the system adjusts the pressure so as not to damage the existing piping.

*some restrictions apply

Features and Benefits

Seasonally efficient

- ✓ New DC inverter compressor for improved low-speed and part-load seasonal performance
- ✓ SCOP of up to 4.65 A+ rating and SEER of up to 6.82 A++ rating.

Zone-by-zone control

- ✓ Individual control of multiple indoor units in each zone
- ✓ Adjust temperature settings according to occupancy and external environmental conditions to save on energy.

Easy installation

- ✓ Compact and lightweight outdoor unit
- ✓ Reduced number of outdoor units and less pipework required.

Improved comfort

- ✓ Slitless fin heat exchanger for improved heating performance
- ✓ Cold draft prevention, frost protection and low noise as standard.

Eco friendly

- ✓ Compatibility - Compatible with all Hitachi System Free indoor units
- ✓ All IVX Premium models are ErP compliant, exceeding the 2014 ErP Lot 10 standards.



IVX Premium is fully ErP compliant and has excellent A++ seasonal efficiency

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SYSTEM
FREE



Utopia IVX Premium

PRELIMINARY DATA

Outdoor Unit		RAS 2HVNP1	RAS 2.5HVNP1	RAS 3HVNP1E	RAS 4HVNP1E	RAS 4HNP1E	RAS 5HVNP1E
Power supply (1Ø/3Ø)		230V / 1Ph / 50Hz				400V / 3Ph / 50Hz	230V / 1Ph / 50Hz
Nominal Cooling Capacity (min - max)	kW	5.0 (2.2 - 5.6)	5.6 (2.2 - 6.3)	7.1 (3.2 - 8.0)	10.0 (4.5 - 11.2)	10 (4.5 - 11.2)	12.5 (5.7 - 14.0)
Nominal Heating Capacity (min - max)	kW	5.6 (2.2 - 7.1)	6.3 (2.2 - 8.0)	8.0 (3.5 - 10.6)	11.2 (5.0 - 14.0)	11.2 (5.0 - 14.0)	14.0 (5.0 - 16.0)
UK Cooling Capacity (sensible) ⁽⁴⁾	kW	tbc	tbc	7.7 (6.2)	10.6 (8.2)	10.6 (8.2)	13.2 (9.5)
Minimum - Maximum Indoor Units*		1 - 2	1 - 2	1 - 3	1 - 5	1 - 5	1 - 6
Minimum - Maximum connected capacity*		90% - 110%	90% - 110%	50% - 120%	50% - 120%	50% - 120%	50% - 120%
Seasonal Efficiency SEER ⁽²⁾		6.49	6.05	7.42	7.88	7.66	n/a
Energy Efficiency Class		A++	A++	A++	A++	A++	-
Annual Energy Consumption	kWh/yr			401	515	522	n/a
Seasonal Efficiency SCOP ⁽²⁾ (Average Climate)		4.67	4.77	4.37	4.68	4.68	n/a
Energy Efficiency Class		A++	A++	A	A	A	-
Annual Energy Consumption	kWh/yr	tbc	tbc	2133	3426	3426	n/a
Nominal Load Efficiency EER / COP ⁽³⁾		tbc	tbc	4.49 / 4.88	4.68 / 5.16	4.68 / 5.16	3.81 / 4.55
Energy Class (Cool/Heat)		tbc	tbc	A / A	A / A	A / A	A / A
Dimensions (H x W x D)	mm	600 x 792 x 300	600 x 792 x 300	800 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370
Weight	Kg	41	41	66	103	103	103
Piping diameter (Liquid / Gas)	Inch	1/4 / 1/2	1/4 / 1/2	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8
	mm	6.35 / 12.7	6.35 / 12.7	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88
Minimum Piping Length	m	5	5	5	5	5	5
Maximum Piping Length / Height Difference	m	30 / 20	30 / 20	50 / 30	75 / 30	75 / 30	75 / 30
Working Range (cooling / heating)	°C	-5°C~46(db)°C / -20°C~-15(wb)°C					

Outdoor Unit		RAS 5HNP1E	RAS 6HVNP1E	RAS 6HNP1E	RAS 8HNPE	RAS 10HNPE	RAS 12HNP
Power supply (1Ø/3Ø)		400V / 3Ph / 50Hz	230V / 1Ph / 50Hz	400V / 3Ph / 50Hz			
Nominal Cooling Capacity (min - max)	kW	12.5 (5.7 - 14.0)	14.0 (6.0 - 16.0)	14.0 (6.0 - 16.0)	20.0 (8.0 - 22.4)	25.0 (10.0 - 28.0)	30.0 (11.2 - 33.5)
Nominal Heating Capacity (min - max)	kW	14.0 (5.0 - 16.0)	16.0 (5.0 - 18.0)	16.0 (5.0 - 18.0)	22.4 (6.3 - 28.0)	28.0 (8.0 - 35.0)	33.5 (9.0 - 37.5)
UK Cooling Capacity (sensible) ⁽⁴⁾	kW	13.2 (9.5)	15.7 (10.8)	15.7 (10.8)	21.1 (16.2)	26.1 (18.8)	31.2 (21.5)
Minimum - Maximum Indoor Units*		1 - 6	1 - 6	1 - 6	1 - 8	1 - 8	1 - 8
Minimum - Maximum connected capacity*		50% - 120%	50% - 120%	50% - 120%	50% - 120%	50% - 120%	50% - 120%
Seasonal Efficiency SEER ⁽²⁾		n/a	n/a	n/a	n/a	n/a	n/a
Energy Efficiency Class		-	-	-	-	-	-
Annual Energy Consumption	kWh/yr	n/a	n/a	n/a	n/a	n/a	n/a
Seasonal Efficiency SCOP ⁽²⁾ (Average Climate)		n/a	n/a	n/a	n/a	n/a	n/a
Energy Efficiency Class		-	-	-	-	-	-
Annual Energy Consumption	kWh/yr	n/a	n/a	n/a	n/a	n/a	n/a
Nominal Load Efficiency EER / COP ⁽³⁾		3.81 / 4.55	3.41 / 4.23	3.41 / 4.23	3.56 / 4.21	3.07 / 3.84	2.65 / 3.64
Energy Class (Cool/Heat)		A / A	A / A	A / A	A / A	B / A	D / A
Dimensions (H x W x D)	mm	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1650 x 1100 x 390
Weight	Kg	103	103	103	136	138	168
Piping diameter (Liquid / Gas)	Inch	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8	3/8 / 11/8	1/2 / 11/8	1/2 / 11/8
	mm	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 28.61	12.07 / 28.61	12.07 / 28.61
Minimum Piping Length	m	5	5	5	5	5	5
Maximum Piping Length / Height Difference	m	75 / 30	75 / 30	75 / 30	100 / 30	100 / 30	100 / 30
Working Range (cooling / heating)	°C	-5°C~46(db)°C / -20°C~-15(wb)°C					

* Restrictions apply please refer to Technical Catalogue

⁽¹⁾ Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the "cooling" mode operation in accordance to EN12102

⁽²⁾ Data calculated in accordance to prEN14825 and the Commission Communication 2012/C 172/01

⁽³⁾ Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C)

^(2, 3 & 4) Data specified includes connection to RCI-FSN3 indoor unit

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