

Air Conditioning Technical Data

UATYQ-ABAY1



- > UATYQ20ABAY1
- > UATYQ25ABAY1
- > UATYQ30ABAY1
- > UATYQ45ABAY1
- > UATYQ50ABAY1
- > UATYQ55ABAY1

- > UATYQ65ABAY1
- > UATYQ75ABAY1
- > UATYQ90ABAY1
- > UATYQ100ABAY1
- > UATYQ115ABAY1

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UATYQ-ABAY1

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1 Features

Extensive factory installed feature package for high installation flexibility and easy servicing

- Easy to install 'plug and play' concept; no additional piping is required since this is a packaged unit
- Highly efficient ERP compliant models, meeting the latest eco-design requirements
- Standard integrated high efficiency inverter controlled EC plug fans, providing up to 300Pa static pressure
- Up to 4 possible sides can be selected on site for both return and supply air connection (front, left, right, bottom)
- Latest pCO5 controller allows direct integration with Daikin BMS, or third party BMS via BACnet or Modbus
- Clogged filter alarm indicates when filter requires cleaning, improving air quality and efficiency
- Factory pre-charged refrigerant ensures a very quick installation and reliable & efficient system operation
- Minimized delivery lead time thanks to stock availability



Scroll
compressor



2 Specifications

2-1 Technical Specifications				UATYQ20ABAY 1	UATYQ25ABAY 1	UATYQ30ABAY 1	UATYQ45ABAY 1	UATYQ50ABAY 1	UATYQ55ABAY 1	
Cooling capacity	Nom.			kW	19.5 (1)	28.0 (1)	30.4 (1)	44.1 (1)	49.2 (1)	51.6 (1)
Heating capacity	Nom.			kW	17.9 (2)	27.0 (2)	31.3 (2)	46.1 (2)	51.9 (2)	56.3 (2)
Power input	Cooling	Nom.	kW	6.6 (1)	10.0 (1)	12.0 (1)	17.0 (1)	19.7 (1)	22.5 (1)	
	Heating	Nom.	kW	5.8 (2)	8.00 (2)	9.6 (2)	14.6 (2)	16.3 (2)	18.1 (2)	
EER				2.94 (3)	2.79 (3) / 3.08	2.54 (3)	2.60 (3)	2.50 (3)	2.29 (3)	
COP				3.07 (3)	3.38 (3)	3.26 (3)	3.15 (3)	3.19 (3)	3.11 (3)	
Dimensions	Unit	Height	mm	1,600	2,150		1,800			
		Width	mm	1,790				2,715		
		Depth	mm	1,730				2,245		
Weight	Unit			kg	672	780		1,068		
Evaporator	Control	Operation		Staged						
Condenser	Compressor	Quantity		2						
		Motor	Type	Scroll						
	Refrigerant	Type		R-410A						
		GWP		2,087.5						
		Charge	TCO ₂ eq	15.7	27.1		35.5			
			kg	7.5	13.0		17.0			
		Circuits	Quantity	1						
	Refrigerant oil	Charged volume	l	2	3	4	6			

2-2 Technical Specifications				UATYQ65ABAY1	UATYQ75ABAY1	UATYQ90ABAY1	UATYQ100ABAY1	UATYQ115ABAY1
Cooling capacity	Nom.		kW	63.5 (1)	73.9 (1)	90.3 (1)	101.6 (1)	106.8 (1)
Heating capacity	Nom.		kW	63.8 (2)	76.6 (2)	93.3 (2)	104.5 (2)	114.2 (2)
Power input	Cooling	Nom.	kW	23.6 (1)	29.7 (1)	33.8 (1)	39.0 (1)	44.3 (1)
	Heating	Nom.	kW	20.0 (2)	25.1 (2)	29.9 (2)	33.2 (2)	37.3 (2)
EER				2.69 (3)	2.49 (3)	2.67 (3)	2.60 (3)	2.41 (3)
COP				3.20 (3)	3.05 (3)	3.12 (3)	3.15 (3)	3.06 (3)
Dimensions	Unit	Height	mm	1,800		2,180		
		Width	mm	3,750		4,050		
		Depth	mm	2,240				
Weight	Unit		kg	1,553		1,738	1,742	1,794
Evaporator	Control	Operation		Staged				
Condenser	Compressor	Quantity		4				
		Motor	Type	Scroll				
	Refrigerant	Type		R-410A				
		GWP		2,087.5				
		Charge	TCO ₂ eq	31.3		41.8	43.8	48.0
			kg	15.0		20.0	21.0	23.0
		Circuits	Quantity		2			
	Refrigerant oil	Charged volume	l	3	4	5		6

2-3 Electrical Specifications				UATYQ20ABAY 1	UATYQ25ABAY 1	UATYQ30ABAY 1	UATYQ45ABAY 1	UATYQ50ABAY 1	UATYQ55ABAY 1
Power supply	Phase			3N~					
	Frequency		Hz	50					
	Voltage		V	400					
Current	Nominal running current (RLA)	Cooling	A	16.00	22.00	27	35	43	44

2-4 Electrical Specifications				UATYQ65ABAY1	UATYQ75ABAY1	UATYQ90ABAY1	UATYQ100ABAY1	UATYQ115ABAY1
Power supply	Phase			3N~				
	Frequency		Hz	50				
	Voltage		V	400				
Current	Nominal running current (RLA)	Cooling	A	56	66	72	76.4	

2 Specifications

Notes

(1) Conditions for calculation: Ambient air 27°C DB, 19°C WB; External air 35°C DB, 24°C WB. 100% recirculating air; calculated according to EN 14511/2018

(2) Conditions for calculation: Ambient air 20°C DB, 15°C WB; External air 7°C DB, 6°C WB. 100% recirculating air; calculated according to EN 14511/2018

(3) Calculated according to EN 14511/2018

Sound power level in free field calculated according to standard ISO 3744. Values refer only to the base unit version

Average Sound Pressure Level at 1 meter in free field on a reflecting surface

3 Capacity tables

3 - 1 Cooling/Heating Capacity Tables

UATYQ-ABAY1 / UATYQ-AFC2Y1

1. PERFORMANCE CALCULATION EXAMPLES (TC, SHC, PI)

The example is referred to the units:

UATYQ75ABAY1

UATYQ75AFC2Y1

Consider the case where performances have to be calculated according to the following conditions:

$T_{outdoor}$: 33°C

T_{indoor} : 27°C

X = Percentage of fresh air = 0% for UATYQ75ABAY1; 30% for UATYQ75AFC2Y1 (as factory default)

SOLUTION:

1st step: DETERMINATION OF AIR CONDITION ON SUPPLY COIL ($T_{in,sup.coil}$) & AIR CONDITION ON EXTERNAL COIL ($T_{in,ext.coil}$)

- UATYQ75ABAY1:

$T_{in,sup.coil} = T_{indoor} = 27\text{ °C}$ (no mixing with fresh air)

$T_{in,ext.coil} = T_{outdoor} = 33\text{ °C}$

$T_{in,sup.coil}$: 27°C is a condition already available on the table (thus, refer to that line).

$T_{in,ext.coil}$: 33 °C is located between 30 and 35°C (thus, interpolation need to be applied).

- UATYQ75AFC2Y1:

$T_{in,sup.coil} = T_{indoor} * \left(1 - \frac{X}{100}\right) + T_{outdoor} * \frac{X}{100} = 27 * \left(1 - \frac{30}{100}\right) + 33 * \frac{30}{100} = 28,8\text{ °C}$

$T_{in,ext.coil} = T_{outdoor} = 33\text{ °C}$

$T_{in,sup.coil}$: 28.8°C is located between 28 and 30°C of air condition on supply coil (thus, interpolation need to be applied).

$T_{in,ext.coil}$: 33 °C is located between 30 and 35°C of air condition on external coil (thus, interpolation need to be applied).

2nd step: INPUT IN THE COOLING CAPACITY AND POWER INPUT TABLE

- UATYQ75ABAY1:

If the air condition on the supply coil and on the external coil are defined in table, the performances are already calculated.

3 Capacity tables

3 - 1 Cooling/Heating Capacity Tables

UATYQ-ABAY1 / UATYQ-AFC2Y1

If not, use the cooling capacities defined in the table to interpolate the cooling capacities at required conditions.

Cooling Capacity and Power Input Table (EN 14511)																	
Air Flow [m ³ /h]	Air Condition on Supply Coil		Air conditions on External Coil														
	T DB [°C]	TWB [°C]	20			25			30			35			40		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
17600	24	17	80,7	59,3	22,49	77,0	57,6	24,76	73,3	56,0	27,02	69,6	54,3	29,29	65,9	52,6	31,56
	25	18	82,3	60,3	22,60	78,6	58,7	24,88	74,8	57,0	27,16	71,1	55,4	29,44	67,3	53,8	31,72
	26	18	84,0	61,4	22,70	80,1	59,8	25,00	76,3	58,1	27,29	72,5	56,5	29,58	68,7	54,9	31,88
	27	19	85,6	62,4	22,81	81,7	60,8	25,12	77,8	59,2	27,42	73,9	57,6	29,73	70,0	56,0	32,04
	28	20	88,0	62,2	22,97	84,0	60,6	25,29	80,0	59,0	27,62	76,0	57,4	29,94	72,0	55,8	32,27
	30	22	93,0	61,7	23,29	88,7	60,1	25,65	84,4	58,5	28,01	80,2	56,9	30,37	75,9	55,3	32,73

$$TC = TC_{30^{\circ}\text{C}} - \frac{(TC_{30^{\circ}\text{C}} - TC_{35^{\circ}\text{C}}) * (T_{in,ext.coil} - 35)}{(30-35)} = 77,8 - \frac{(77,8 - 73,9) * (33 - 35)}{(30-35)} = 76,24 \text{ kW}$$

$$SHC = SHC_{30^{\circ}\text{C}} - \frac{(SHC_{30^{\circ}\text{C}} - SHC_{35^{\circ}\text{C}}) * (T_{in,ext.coil} - 35)}{(30-35)} = 59,2 - \frac{(59,2 - 57,6) * (33 - 35)}{(30-35)} = 58,56 \text{ kW}$$

$$PI = PI_{30^{\circ}\text{C}} - \frac{(PI_{30^{\circ}\text{C}} - PI_{35^{\circ}\text{C}}) * (T_{in,ext.coil} - 35)}{(30-35)} = 27,42 - \frac{(27,42 - 29,73) * (33 - 35)}{(30-35)} = 28,35 \text{ kW}$$

- UATYQ75AFC2Y1:

The desired conditions are

$$T_{in,sup.coil} = 28,8^{\circ}\text{C}$$

$$T_{in,ext.coil} = 33^{\circ}\text{C}$$

Cooling Capacity and Power Input Table (EN 14511)																	
Air Flow [m ³ /h]	Air Condition on Supply Coil		Air conditions on External Coil														
	T DB [°C]	TWB [°C]	20			25			30			35			40		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
17600	24	17	80,7	59,3	22,49	77,0	57,6	24,76	73,3	56,0	27,02	69,6	54,3	29,29	65,9	52,6	31,56
	25	18	82,3	60,3	22,60	78,6	58,7	24,88	74,8	57,0	27,16	71,1	55,4	29,44	67,3	53,8	31,72
	26	18	84,0	61,4	22,70	80,1	59,8	25,00	76,3	58,1	27,29	72,5	56,5	29,58	68,7	54,9	31,88
	27	19	85,6	62,4	22,81	81,7	60,8	25,12	77,8	59,2	27,42	73,9	57,6	29,73	70,0	56,0	32,04
	28	20	88,0	62,2	22,97	84,0	60,6	25,29	80,0	59,0	27,62	76,0	57,4	29,94	72,0	55,8	32,27
	30	22	93,0	61,7	23,29	88,7	60,1	25,65	84,4	58,5	28,01	80,2	56,9	30,37	75,9	55,3	32,73

Interpolate in the following way among the 4 highlighted conditions to obtain the desired conditions:

- 1) interpolate between the *air conditions on the external coil* of 30 and 35 °C with 28° C of *air conditions on the supply coil*:

$$TC_1 = TC_{30^{\circ}\text{C}} - \frac{(TC_{30^{\circ}\text{C}} - TC_{35^{\circ}\text{C}}) * (T_{in,ext.coil} - 35)}{(30-35)} = 80,0 - \frac{(80,0 - 76,0) * (33 - 35)}{(30-35)} = 78,4 \text{ kW}$$

- 2) interpolate between the *air conditions on the external coil* of 30 and 35 °C with 30° C of *air conditions on the supply coil*:

$$TC_2 = TC_{30^{\circ}\text{C}} - \frac{(TC_{30^{\circ}\text{C}} - TC_{35^{\circ}\text{C}}) * (T_{in,ext.coil} - 35)}{(30-35)} = 84,4 - \frac{(84,4 - 80,2) * (33 - 35)}{(30-35)} = 82,72 \text{ kW}$$

3 Capacity tables

3 - 1 Cooling/Heating Capacity Tables

UATYQ-ABAY1 / UATYQ-AFC2Y1

3) make the final interpolation with the above results to obtain the final value at 28.8°C of *air conditions on the supply coil*:

$$TC = TC_1 - \frac{(TC_1 - TC_2)}{(28-30)} * \frac{(T_{in,ext.coil} - 30)}{(28-30)} = 78,4 - \frac{(78,4 - 82,72)}{(28-30)} * (28,8 - 30) = 81,0 \text{ kW}$$

The same interpolations should be done for the sensible cooling capacity and the power input.

Moreover, the same method has to be used to calculate the **heating capacity and power input** at desired conditions

2. REMARKS FOR THE USE OF COOLING / HEATING CAPACITY TABLES

For **UATYQ**ABAY1** unit, use air conditions on internal coil and on external coil as input for the table. For air condition on internal coil and external coil not present in the table, interpolation is required.

For **UATYQ**AFC2Y1** use, as input for the table, air temperature on external and correct the internal air temperature with the following formula:

Determination of air temperature on supply coil (use as input in the table)

$$T_{in,sup.coil} = T_{indoor} * \left(1 - \frac{X}{100}\right) + T_{outdoor} * \frac{X}{100}$$

Where:

$T_{in,sup.coil}$ is the temperature that has to be used as input for the table on the *air temperature supply coil data set*

T_{indoor} is the temperature of the indoor ambient

$T_{outdoor}$ is the temperature of the outdoor ambient

X is the amount (in %) of the fresh air. As factory default this is set to 30%, therefore the above calculation is:

(e.g. with $T_{indoor} = 27^\circ\text{C}$ and $T_{outdoor} = 35^\circ\text{C}$)

$$T_{in,sup.coil} = T_{indoor} * 0.7 + T_{outdoor} * 0.3 = 27 * 0.7 + 35 * 0.3 = 29.4$$

3 Capacity tables

3 - 1 Cooling/Heating Capacity Tables

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UATYQ20ABAY1 / UATYQ20AFC2Y1

Cooling Capacity and Power Input Table (EN 14511)																	
Air Flow	Air Condition on Supply Coil		Air conditions on External Coil														
	T DB	TWB	20			25			30			35			40		
[m3/h]	[°C]	[°C]	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
4950	24	17	21,1	16,1	4,90	20,1	15,6	5,46	19,2	15,2	6,02	18,3	14,8	6,58	17,4	14,3	7,14
	25	18	21,5	16,4	4,91	20,6	16,0	5,47	19,6	15,6	6,03	18,7	15,1	6,59	17,7	14,7	7,15
	26	18	22,0	16,7	4,91	21,0	16,3	5,47	20,0	15,9	6,03	19,1	15,5	6,59	18,1	15,1	7,15
	27	19	22,4	17,1	4,92	21,5	16,7	5,48	20,5	16,3	6,04	19,5	15,9	6,60	18,5	15,5	7,16
	28	20	23,1	17,0	4,93	22,1	16,6	5,49	21,1	16,2	6,06	20,1	15,8	6,62	19,1	15,4	7,18
	30	22	24,6	16,9	4,96	23,5	16,5	5,53	22,4	16,1	6,09	21,3	15,7	6,66	20,2	15,3	7,23

Heating Capacity and Power Input Table (EN 14511)													
Air Flow	Air conditions on External Coil		Air Condition on Supply Coil										
	T DB	TWB	16		18		20		22		24		
[m3/h]	[°C]	[°C]	PC	PI	PC	PI	PC	PI	PC	PI	PC	PI	
4950	-10	-10,1	10,9	4,9	10,9	5,1	10,9	5,3	10,8	5,6	10,8	5,8	
	-7	-8	12,1	5,0	12,0	5,2	11,9	5,4	11,8	5,6	11,8	5,9	
	-3	-4	13,5	5,1	13,4	5,3	13,3	5,5	13,3	5,8	13,2	6,0	
	0	-1	14,7	5,1	14,5	5,4	14,4	5,6	14,4	5,8	14,3	6,1	
	2	1	15,4	5,2	15,3	5,4	15,2	5,7	15,1	5,9	15,0	6,1	
	7	6	18,4	5,4	18,2	5,6	17,9	5,84	17,8	6,1	17,7	6,4	
	12	11	20,9	5,6	20,7	5,9	20,5	6,1	20,3	6,4	20,1	6,6	

Data calculated in accordance with EN 14511

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UATYQ25ABAY1 / UATYQ25AFC2Y1

Cooling Capacity and Power Input Table (EN 14511)																	
Air Flow	Air Condition on Supply Coil		Air conditions on External Coil														
	T DB	TWB	20			25			30			35			40		
[m3/h]	[°C]	[°C]	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
7260	24	17	30,6	23,5	7,11	29,6	23,1	8,08	28,5	22,6	9,06	27,5	22,2	10,03	26,5	21,7	11,00
	25	18	31,7	24,2	7,18	30,4	23,6	8,13	29,0	23,1	9,08	27,7	22,5	10,03	26,3	21,9	10,98
	26	18	32,8	24,9	7,24	31,1	24,2	8,17	29,5	23,5	9,10	27,8	22,8	10,03	26,2	22,1	10,96
	27	19	33,9	25,6	7,31	31,9	24,8	8,22	30,0	23,9	9,12	28,0	23,1	10,03	26,0	22,3	10,94
	28	20	34,4	25,3	7,34	32,5	24,5	8,26	30,7	23,8	9,19	28,8	23,0	10,11	26,9	22,2	11,04
	30	22	35,4	24,7	7,39	33,7	24,0	8,35	32,1	23,4	9,31	30,4	22,8	10,27	28,7	22,2	11,23

Heating Capacity and Power Input Table (EN 14511)													
Air Flow	Air conditions on External Coil		Air Condition on Supply Coil										
	T DB	TWB	16		18		20		22		24		
[m3/h]	[°C]	[°C]	PC	PI	PC	PI	PC	PI	PC	PI	PC	PI	
7260	-10	-10,1	15,9	5,7	15,9	5,9	15,9	6,2	15,8	6,5	15,7	6,8	
	-7	-8	17,4	6,0	17,3	6,1	17,2	6,2	17,2	6,7	17,1	7,2	
	-3	-4	19,4	6,4	19,3	6,7	19,2	6,9	19,1	7,3	19,0	7,7	
	0	-1	20,9	6,8	20,8	7,1	20,6	7,4	20,5	7,7	20,4	8,1	
	2	1	21,9	7,0	21,7	7,3	21,6	7,7	21,5	8,0	21,3	8,4	
	7	6	27,8	7,4	27,4	7,7	27,0	8,00	27,0	8,4	26,9	8,8	
	12	11	31,7	7,7	31,4	8,1	31,1	8,5	30,8	8,8	30,5	9,2	

Data calculated in accordance with EN 14511

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3 Capacity tables

3 - 1 Cooling/Heating Capacity Tables

UATYQ30ABAY1 / UATYQ30AFC2Y1

Cooling Capacity and Power Input Table (EN 14511)																	
Air Flow	Air Condition on Supply Coil		Air conditions on External Coil														
	T DB	TWB	20			25			30			35			40		
[m3/h]	[°C]	[°C]	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
8250	24	17	33,5	25,8	8,91	31,9	25,1	9,89	30,3	24,4	10,87	28,6	23,7	11,85	27,0	23,0	12,83
	25	18	34,2	26,4	8,96	32,5	25,7	9,94	30,9	25,0	10,91	29,2	24,2	11,89	27,5	23,5	12,87
	26	18	34,9	26,9	9,00	33,2	26,2	9,98	31,5	25,5	10,96	29,8	24,8	11,93	28,1	24,1	12,91
	27	19	35,6	27,4	9,05	33,8	26,7	10,02	32,1	26,0	11,00	30,4	25,3	11,97	28,7	24,6	12,94
	28	20	36,6	27,3	9,13	34,8	26,6	10,11	33,0	25,9	11,10	31,2	25,2	12,08	29,5	24,5	13,06
	30	22	38,6	27,0	9,29	36,7	26,3	10,29	34,8	25,6	11,29	33,0	24,9	12,29	31,1	24,2	13,29

Heating Capacity and Power Input Table (EN 14511)												
Air Flow	Air conditions on External Coil		Air Condition on Supply Coil									
	T DB	TWB	16		18		20		22		24	
[m3/h]	[°C]	[°C]	PC	PI	PC	PI	PC	PI	PC	PI	PC	PI
8250	-10	-10,1	19,0	7,8	18,8	8,1	18,6	8,4	18,4	8,5	18,3	8,7
	-7	-8	20,6	8,0	20,3	8,2	19,9	8,5	19,9	8,7	19,9	9,0
	-3	-4	22,9	8,2	22,6	8,5	22,3	8,8	22,2	9,1	22,1	9,4
	0	-1	24,5	8,4	24,3	8,7	24,0	9,0	23,9	9,3	23,7	9,7
	2	1	25,6	8,5	25,4	8,8	25,2	9,2	25,0	9,5	24,8	9,9
	7	6	32,1	8,9	31,7	9,3	31,3	9,59	31,2	10,0	31,0	10,4
	12	11	36,2	9,4	35,8	9,8	35,5	10,1	35,2	10,5	34,9	10,9

Data calculated in accordance with EN 14511

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UATYQ45ABAY1 / UATYQ45AFC2Y1

Cooling Capacity and Power Input Table (EN 14511)																	
Air Flow	Air Condition on Supply Coil		Air conditions on External Coil														
	T DB	TWB	20			25			30			35			40		
[m3/h]	[°C]	[°C]	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
11000	24	17	48,9	36,2	12,52	46,4	35,1	13,92	43,9	34,0	15,32	41,5	32,9	16,72	39,0	31,9	18,12
	25	18	49,6	36,8	12,72	47,2	35,8	14,08	44,8	34,7	15,44	42,3	33,7	16,80	39,9	32,6	18,16
	26	18	50,3	37,4	12,92	48,0	36,4	14,24	45,6	35,4	15,56	43,2	34,4	16,88	40,9	33,4	18,20
	27	19	51,1	38,0	13,12	48,8	37,1	14,40	46,4	36,1	15,68	44,1	35,2	16,96	41,8	34,2	18,24
	28	20	52,9	38,0	13,09	50,4	37,0	14,42	47,9	36,0	15,75	45,5	35,0	17,08	43,0	34,0	18,41
	30	22	56,5	37,8	13,04	53,7	36,8	14,47	50,9	35,7	15,89	48,1	34,7	17,32	45,3	33,7	18,75

Heating Capacity and Power Input Table (EN 14511)												
Air Flow	Air conditions on External Coil		Air Condition on Supply Coil									
	T DB	TWB	16		18		20		22		24	
[m3/h]	[°C]	[°C]	PC	PI	PC	PI	PC	PI	PC	PI	PC	PI
11000	-10	-10,1	28,2	12,0	28,0	12,4	27,8	12,8	27,7	13,3	27,5	13,7
	-7	-8	30,6	12,3	30,1	12,6	29,6	12,8	29,8	13,4	29,9	14,0
	-3	-4	34,0	12,7	33,6	13,0	33,2	13,4	33,1	13,9	33,1	14,5
	0	-1	36,4	12,9	36,1	13,4	35,8	13,8	35,6	14,3	35,4	14,8
	2	1	38,1	13,1	37,8	13,6	37,6	14,1	37,3	14,5	37,0	15,0
	7	6	47,5	13,8	46,8	14,2	46,1	14,63	46,0	15,2	46,0	15,8
	12	11	53,3	14,5	52,8	15,0	52,4	15,5	51,9	16,0	51,5	16,5

Data calculated in accordance with EN 14511

04

3 Capacity tables

3 - 1 Cooling/Heating Capacity Tables

3

UATYQ50ABAY1 / UATYQ50AFC2Y1

Cooling Capacity and Power Input Table (EN 14511)																	
Air Flow	Air Condition on Supply Coil		Air conditions on External Coil														
	T DB	TWB	20			25			30			35			40		
[m3/h]	[°C]	[°C]	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
12100	24	17	53,8	39,9	14,64	52,0	39,1	16,31	50,2	38,3	17,97	48,4	37,5	19,64	46,5	36,7	21,31
	25	18	54,9	40,6	14,73	52,8	39,7	16,37	50,7	38,8	18,02	48,6	37,9	19,67	46,6	37,0	21,31
	26	18	55,9	41,3	14,81	53,6	40,4	16,44	51,3	39,4	18,07	48,9	38,4	19,69	46,6	37,4	21,32
	27	19	57,0	42,1	14,90	54,4	41,0	16,51	51,8	39,9	18,11	49,2	38,8	19,72	46,6	37,8	21,33
	28	20	58,6	41,9	15,05	55,9	40,8	16,70	53,1	39,7	18,35	50,4	38,6	20,01	47,7	37,5	21,66
	30	22	62,0	41,5	15,34	58,9	40,4	17,09	55,9	39,2	18,83	52,8	38,1	20,58	49,8	37,0	22,33

Heating Capacity and Power Input Table (EN 14511)													
Air Flow	Air conditions on External Coil		Air Condition on Supply Coil										
	T DB	TWB	16		18		20		22		24		
[m3/h]	[°C]	[°C]	PC	PI	PC	PI	PC	PI	PC	PI	PC	PI	
12100	-10	-10,1	31,4	12,9	31,2	13,4	31,0	13,9	30,8	14,4	30,6	15,0	
	-7	-8	34,1	13,2	33,5	13,7	32,9	14,1	32,9	14,7	32,8	15,3	
	-3	-4	37,7	13,7	37,3	14,2	36,9	14,7	36,8	15,3	36,6	15,9	
	0	-1	40,5	14,1	40,2	14,6	39,9	15,2	39,7	15,7	39,5	16,3	
	2	1	42,3	14,3	42,1	14,9	41,8	15,5	41,6	16,0	41,4	16,6	
	7	6	52,5	15,1	52,2	15,7	51,9	16,27	51,5	16,9	51,0	17,5	
	12	11	58,6	15,9	58,1	16,5	57,6	17,1	57,1	17,7	56,6	18,4	

Data calculated in accordance with EN 14511

04

UATYQ55ABAY1 / UATYQ55AFC2Y1

Cooling Capacity and Power Input Table (EN 14511)																	
Air Flow	Air Condition on Supply Coil		Air conditions on External Coil														
	T DB	TWB	20			25			30			35			40		
[m3/h]	[°C]	[°C]	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
13200	24	17	57,3	42,5	16,44	54,5	41,2	18,33	51,6	40,0	20,22	48,7	38,7	22,10	45,9	37,4	23,99
	25	18	58,5	43,3	16,55	55,5	42,0	18,45	52,6	40,8	20,34	49,7	39,5	22,24	46,8	38,2	24,13
	26	18	59,6	44,1	16,66	56,6	42,8	18,56	53,6	41,6	20,47	50,6	40,3	22,37	47,7	39,1	24,28
	27	19	60,7	44,9	16,76	57,6	43,6	18,68	54,6	42,4	20,59	51,6	41,2	22,50	48,6	39,9	24,42
	28	20	62,4	44,6	16,92	59,3	43,4	18,85	56,2	42,2	20,78	53,1	40,9	22,70	49,9	39,7	24,63
	30	22	65,9	44,2	17,22	62,6	43,0	19,18	59,3	41,7	21,14	56,0	40,5	23,10	52,6	39,3	25,06

Heating Capacity and Power Input Table (EN 14511)													
Air Flow	Air conditions on External Coil		Air Condition on Supply Coil										
	T DB	TWB	16		18		20		22		24		
[m3/h]	[°C]	[°C]	PC	PI	PC	PI	PC	PI	PC	PI	PC	PI	
13200	-10	-10,1	34,4	14,3	34,2	14,9	34,0	15,5	33,6	16,1	33,3	16,7	
	-7	-8	37,3	14,7	36,6	15,2	35,9	15,8	35,6	16,4	35,4	17,0	
	-3	-4	41,3	15,2	40,8	15,8	40,2	16,4	39,9	17,1	39,6	17,7	
	0	-1	44,3	15,7	43,9	16,3	43,4	16,9	43,1	17,6	42,8	18,3	
	2	1	46,3	15,9	45,9	16,6	45,6	17,3	45,2	17,9	44,9	18,6	
	7	6	57,6	16,9	56,9	17,5	56,3	18,12	56,0	18,9	55,8	19,7	
	12	11	64,5	17,8	63,9	18,6	63,4	19,3	62,9	20,0	62,4	20,8	

Data calculated in accordance with EN 14511

04

3 Capacity tables

3 - 1 Cooling/Heating Capacity Tables

UATYQ65ABAY1 / UATYQ65AFC2Y1

Cooling Capacity and Power Input Table (EN 14511)																	
Air Flow	Air Condition on Supply Coil		Air conditions on External Coil														
	T DB	TWB	20			25			30			35			40		
[m3/h]	[°C]	[°C]	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
15400	24	17	69,2	52,0	17,69	66,6	50,8	19,28	63,9	49,6	20,86	61,3	48,3	22,45	58,6	47,1	24,04
	25	18	70,8	53,0	17,77	67,9	51,7	19,45	64,9	50,4	21,14	62,0	49,1	22,82	59,1	47,8	24,51
	26	18	72,3	54,0	17,85	69,1	52,7	19,63	65,9	51,3	21,41	62,8	49,9	23,20	59,6	48,6	24,98
	27	19	73,9	55,0	17,93	70,4	53,6	19,81	67,0	52,2	21,69	63,5	50,7	23,57	60,1	49,3	25,45
	28	20	75,8	54,7	18,06	72,3	53,3	19,95	68,8	52,0	21,83	65,4	50,6	23,72	61,9	49,2	25,60
	30	22	79,6	54,3	18,33	76,1	52,9	20,22	72,6	51,5	22,12	69,1	50,2	24,01	65,5	48,8	25,90

Heating Capacity and Power Input Table (EN 14511)													
Air Flow	Air conditions on External Coil		Air Condition on Supply Coil										
	T DB	TWB	16		18		20		22		24		
[m3/h]	[°C]	[°C]	PC	PI	PC	PI	PC	PI	PC	PI	PC	PI	
15400	-10	-10,1	38,2	16,1	38,0	16,7	37,8	17,3	37,7	18,0	37,6	18,7	
	-7	-8	41,7	16,5	41,1	17,1	40,5	17,7	40,4	18,3	40,2	19,0	
	-3	-4	46,3	17,0	45,8	17,7	45,3	18,3	45,0	19,0	44,7	19,7	
	0	-1	49,7	17,4	49,3	18,1	48,8	18,7	48,5	19,4	48,1	20,1	
	2	1	52,0	17,7	51,6	18,4	51,2	19,1	50,8	19,8	50,4	20,5	
	7	6	65,2	18,6	64,5	19,3	63,8	19,98	63,4	20,8	63,0	21,6	
	12	11	73,4	19,6	72,7	20,3	72,1	21,1	71,5	21,9	70,9	22,7	

Data calculated in accordance with EN 14511

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UATYQ75ABAY1 / UATYQ75AFC2Y1

Cooling Capacity and Power Input Table (EN 14511)																	
Air Flow	Air Condition on Supply Coil		Air conditions on External Coil														
	T DB	TWB	20			25			30			35			40		
[m3/h]	[°C]	[°C]	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
17600	24	17	80,7	59,3	22,49	77,0	57,6	24,76	73,3	56,0	27,02	69,6	54,3	29,29	65,9	52,6	31,56
	25	18	82,3	60,3	22,60	78,6	58,7	24,88	74,8	57,0	27,16	71,1	55,4	29,44	67,3	53,8	31,72
	26	18	84,0	61,4	22,70	80,1	59,8	25,00	76,3	58,1	27,29	72,5	56,5	29,58	68,7	54,9	31,88
	27	19	85,6	62,4	22,81	81,7	60,8	25,12	77,8	59,2	27,42	73,9	57,6	29,73	70,0	56,0	32,04
	28	20	88,0	62,2	22,97	84,0	60,6	25,29	80,0	59,0	27,62	76,0	57,4	29,94	72,0	55,8	32,27
	30	22	93,0	61,7	23,29	88,7	60,1	25,65	84,4	58,5	28,01	80,2	56,9	30,37	75,9	55,3	32,73

Heating Capacity and Power Input Table (EN 14511)													
Air Flow	Air conditions on External Coil		Air Condition on Supply Coil										
	T DB	TWB	16		18		20		22		24		
[m3/h]	[°C]	[°C]	PC	PI	PC	PI	PC	PI	PC	PI	PC	PI	
17600	-10	-10,1	46,6	20,1	46,4	20,8	46,3	21,6	46,1	22,4	45,9	23,2	
	-7	-8	50,7	20,6	49,8	21,3	49,0	22,0	48,7	22,8	48,4	23,6	
	-3	-4	56,1	21,4	55,4	22,1	54,8	22,9	54,4	23,7	54,1	24,5	
	0	-1	60,1	21,9	59,6	22,7	59,1	23,5	58,7	24,3	58,3	25,2	
	2	1	62,8	22,3	62,4	23,1	62,0	24,0	61,6	24,8	61,2	25,6	
	7	6	78,4	23,6	77,6	24,4	76,7	25,13	76,4	26,1	76,0	27,1	
	12	11	88,1	24,9	87,3	25,8	86,5	26,7	85,8	27,6	85,0	28,5	

Data calculated in accordance with EN 14511

04

3 Capacity tables

3 - 1 Cooling/Heating Capacity Tables

3

UATYQ90ABAY1 / UATYQ90AFC2Y1

Cooling Capacity and Power Input Table (EN 14511)																	
Air Flow	Air Condition on Supply Coil		Air conditions on External Coil														
	T DB	TWB	20			25			30			35			40		
[m ³ /h]	[°C]	[°C]	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20900	24	17	97,9	71,8	26,06	93,5	69,8	28,51	89,2	67,8	30,97	84,9	65,8	33,42	80,6	63,9	35,87
	25	18	100,0	73,2	26,19	95,5	71,2	28,65	91,1	69,2	31,10	86,7	67,3	33,55	82,3	65,3	36,01
	26	18	102,0	74,6	26,33	97,5	72,6	28,78	93,0	70,7	31,23	88,5	68,7	33,69	84,0	66,7	36,14
	27	19	104,1	76,0	26,46	99,5	74,1	28,91	94,9	72,1	31,37	90,3	70,1	33,82	85,6	68,1	36,27
	28	20	106,9	75,5	26,78	102,2	73,6	29,20	97,6	71,7	31,62	93,0	69,9	34,05	88,4	68,0	36,47
	30	22	112,3	74,5	27,42	107,7	72,8	29,78	103,0	71,1	32,14	98,4	69,4	34,50	93,8	67,6	36,86

Heating Capacity and Power Input Table (EN 14511)													
Air Flow	Air conditions on External Coil		Air Condition on Supply Coil										
	T DB	TWB	16		18		20		22		24		
[m ³ /h]	[°C]	[°C]	PC	PI	PC	PI	PC	PI	PC	PI	PC	PI	
20900	-10	-10,1	55,9	23,3	55,5	24,0	55,0	24,7	54,8	25,6	54,6	26,6	
	-7	-8	60,9	24,1	59,9	25,1	59,0	26,1	58,9	26,6	58,8	27,1	
	-3	-4	67,5	25,1	66,8	26,1	66,0	27,1	65,7	27,8	65,4	28,5	
	0	-1	72,5	25,9	71,9	26,8	71,2	27,8	70,8	28,7	70,3	29,5	
	2	1	75,9	26,4	75,3	27,3	74,7	28,3	74,2	29,2	73,6	30,2	
	7	6	95,0	27,8	94,0	28,7	93,0	29,55	92,3	30,6	91,6	31,7	
	12	11	107,0	29,1	105,9	30,2	104,8	31,2	103,8	32,2	102,7	33,3	

Data calculated in accordance with EN 14511

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UATYQ100ABAY1 / UATYQ100AFC2Y1

Cooling Capacity and Power Input Table (EN 14511)																	
Air Flow	Air Condition on Supply Coil		Air conditions on External Coil														
	T DB	TWB	20			25			30			35			40		
[m ³ /h]	[°C]	[°C]	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
23650	24	17	110,3	81,0	29,31	105,4	78,8	32,36	100,5	76,6	35,41	95,7	74,4	38,47	90,8	72,2	41,52
	25	18	112,4	82,5	29,48	107,5	80,3	32,54	102,5	78,1	35,60	97,6	75,9	38,65	92,7	73,7	41,71
	26	18	114,5	84,0	29,65	109,5	81,8	32,72	104,6	79,6	35,78	99,6	77,5	38,84	94,7	75,3	41,90
	27	19	116,5	85,5	29,83	111,6	83,3	32,89	106,6	81,2	35,96	101,6	79,0	39,03	96,6	76,9	42,09
	28	20	120,0	85,1	30,08	115,1	83,0	33,01	110,1	80,9	35,94	105,2	78,9	38,87	100,3	76,8	41,80
	30	22	126,9	84,2	30,59	122,1	82,3	33,24	117,3	80,5	35,89	112,5	78,6	38,55	107,7	76,8	41,20

Heating Capacity and Power Input Table (EN 14511)													
Air Flow	Air conditions on External Coil		Air Condition on Supply Coil										
	T DB	TWB	16		18		20		22		24		
[m ³ /h]	[°C]	[°C]	PC	PI	PC	PI	PC	PI	PC	PI	PC	PI	
23650	-10	-10,1	63,7	25,6	63,3	27,1	62,9	28,6	62,5	29,6	62,1	30,7	
	-7	-8	69,1	26,6	67,7	28,1	66,3	29,6	66,2	30,4	66,0	31,3	
	-3	-4	76,3	27,8	75,3	29,1	74,3	30,5	74,0	31,5	73,7	32,5	
	0	-1	81,7	28,7	81,0	30,0	80,3	31,2	79,8	32,3	79,4	33,4	
	2	1	85,4	29,3	84,8	30,5	84,3	31,6	83,8	32,8	83,2	34,0	
	7	6	106,7	31,0	105,6	32,1	104,5	33,17	104,1	34,5	103,6	35,9	
	12	11	119,8	32,7	118,9	34,0	117,9	35,2	117,0	36,5	116,1	37,8	

Data calculated in accordance with EN 14511

04

3 Capacity tables

3 - 1 Cooling/Heating Capacity Tables

UATYQ115ABAY1 / UATYQ115AFC2Y1

Cooling Capacity and Power Input Table (EN 14511)																	
Air Flow	Air Condition on Supply Coil		Air conditions on External Coil														
	T DB	TWB	20			25			30			35			40		
[m ³ /h]	[°C]	[°C]	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
25300	24	17	117,7	85,7	32,77	112,0	83,1	36,38	106,4	80,5	39,99	100,7	77,9	43,61	95,0	75,4	47,22
	25	18	120,1	87,3	32,95	114,3	84,7	36,59	108,5	82,1	40,22	102,7	79,5	43,85	97,0	77,0	47,48
	26	18	122,4	88,8	33,14	116,5	86,2	36,79	110,6	83,7	40,44	104,8	81,1	44,09	98,9	78,6	47,74
	27	19	124,7	90,3	33,33	118,8	87,8	36,99	112,8	85,3	40,66	106,8	82,8	44,33	100,8	80,2	47,99
	28	20	128,3	89,9	33,62	122,3	87,4	37,32	116,2	85,0	41,02	110,2	82,5	44,71	104,2	80,0	48,41
	30	22	135,5	89,0	34,21	129,3	86,7	37,97	123,1	84,4	41,73	117,0	82,0	45,49	110,8	79,7	49,25

Heating Capacity and Power Input Table (EN 14511)													
Air Flow	Air conditions on External Coil		Air Condition on Supply Coil										
	T DB	TWB	16		18		20		22		24		
[m ³ /h]	[°C]	[°C]	PC	PI	PC	PI	PC	PI	PC	PI	PC	PI	
25300	-10	-10,1	69,4	29,5	68,8	30,7	68,1	31,8	67,5	33,0	66,8	34,2	
	-7	-8	75,5	30,4	74,0	31,4	72,6	32,5	72,1	33,7	71,6	35,0	
	-3	-4	83,6	31,5	82,4	32,6	81,3	33,8	80,7	35,1	80,1	36,4	
	0	-1	89,7	32,3	88,8	33,6	87,9	34,8	87,2	36,2	86,5	37,5	
	2	1	93,7	32,9	93,0	34,2	92,2	35,5	91,5	36,9	90,8	38,2	
	7	6	117,0	34,8	115,6	36,1	114,2	37,29	113,5	38,9	112,9	40,4	
	12	11	131,3	36,8	130,1	38,2	128,8	39,7	127,5	41,2	126,3	42,7	

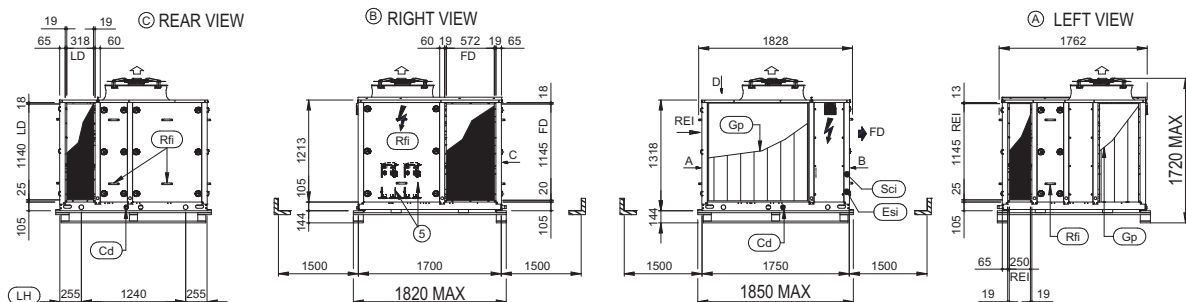
Data calculated in accordance with EN 14511

4 Dimensional drawings

4 - 1 Dimensional Drawings

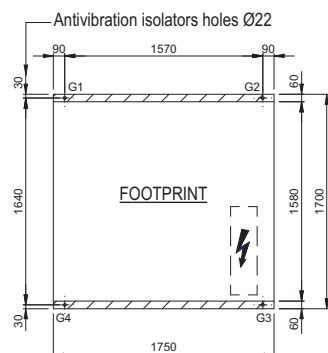
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UATYQ20ABAY1



DENOMINATION

- | | |
|---------------------|---------------------|
| 1) Condensing coil | 4) Condensing fan |
| 2) Evaporating coil | 5) Compressor |
| 3) Discharge fan | 6) Electrical panel |



Discharge air direction
FD= Frontal discharge
LD= Left discharge

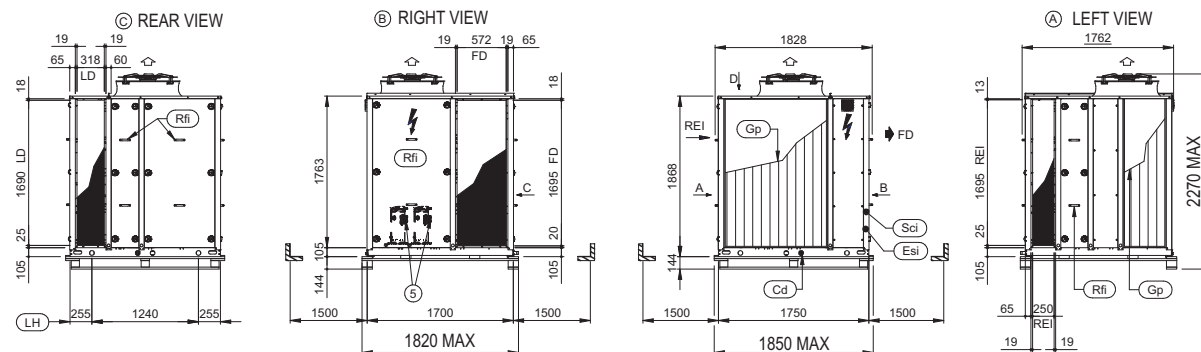
Intake air direction
REI=Rear intake

Gp	GRID PROTECTIONS
Cd	CONDENSATE DRAIN
Rfi	REMOVE FOR INSPECTION
Esi	ELECTRICAL SUPPLY INLET
Sci	SIGNAL CABLES INLET
Lh	LIFTING HOLES Ø55

[Kg]					ANTIVIBRATION ISOLATOR CODE
OPERATING WEIGHT	G1	G2	G3	G4	
672	122	210	235	105	UATYQAVM1

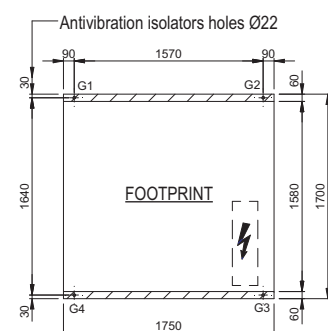
DDIM000225A

UATYQ25-30ABAY1



DENOMINATION

- | | |
|---------------------|---------------------|
| 1) Condensing coil | 5) Compressor |
| 2) Evaporating coil | 6) Electrical panel |
| 3) Discharge fan | 7) EU4 air filter |
| 4) Condensing fan | |



Discharge air direction
FD= Frontal discharge
LD= Left discharge

Intake air direction
REI=Rear intake

Gp	GRID PROTECTIONS
Cd	CONDENSATE DRAIN
Rfi	REMOVE FOR INSPECTION
Esi	ELECTRICAL SUPPLY INLET
Sci	SIGNAL CABLES INLET
Lh	LIFTING HOLES Ø55

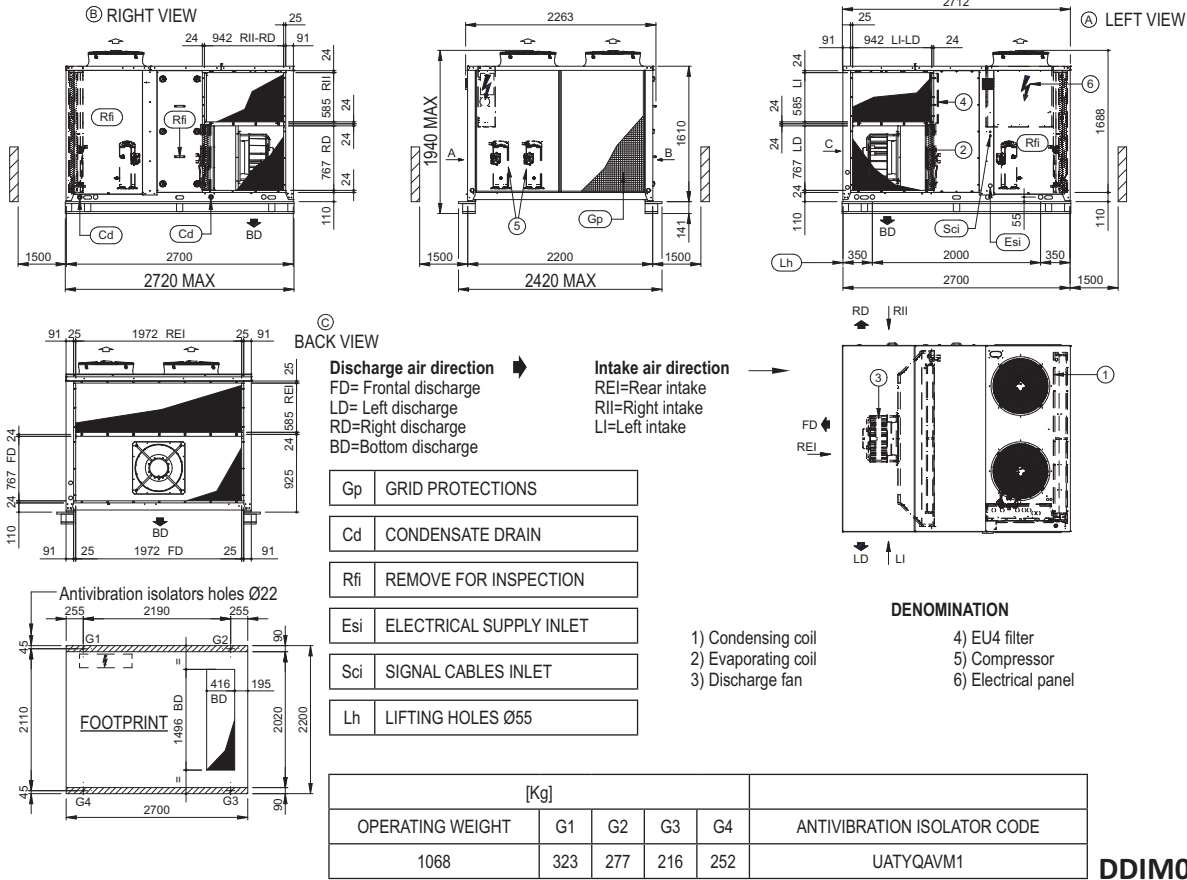
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OPERATING WEIGHT	G1	G2	G3	G4	
780	139	250	270	121	UATYQAVM1

DDIM000234A

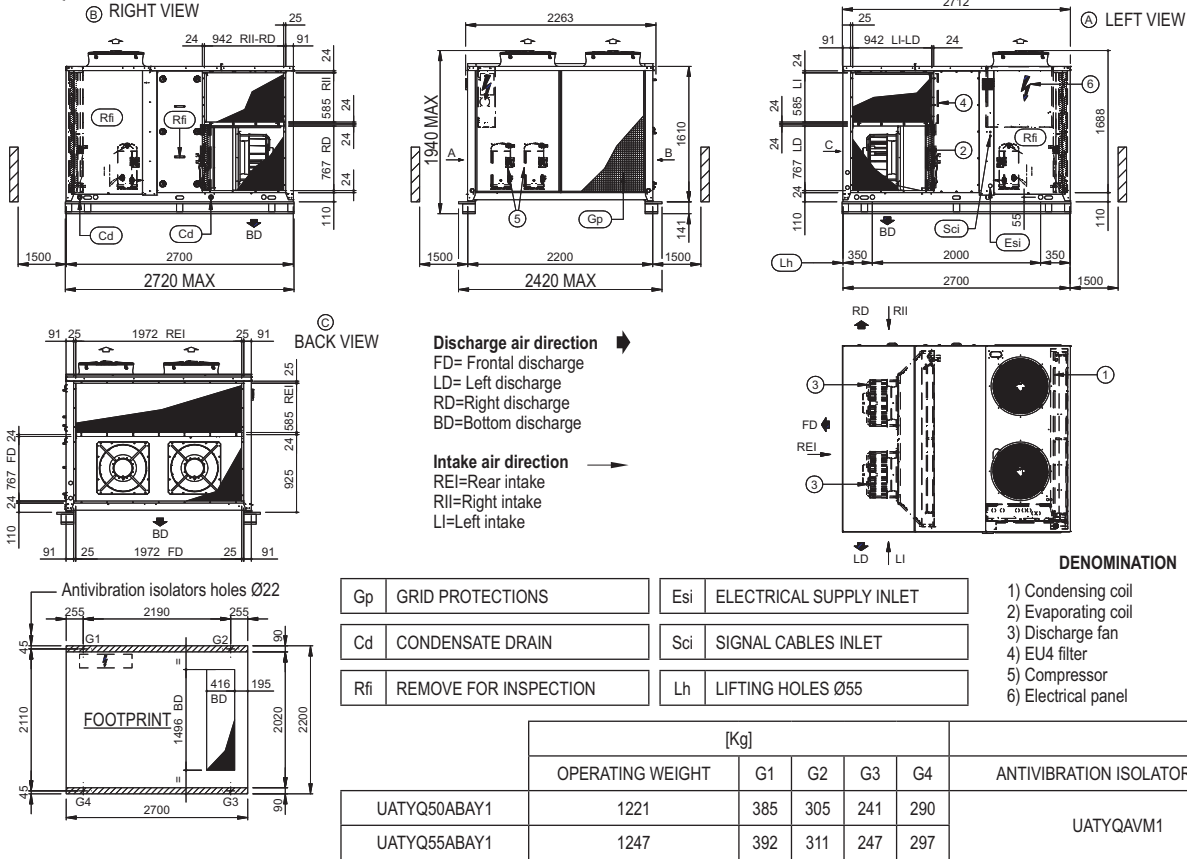
4 Dimensional drawings

4 - 1 Dimensional Drawings

UATYQ45ABAY1



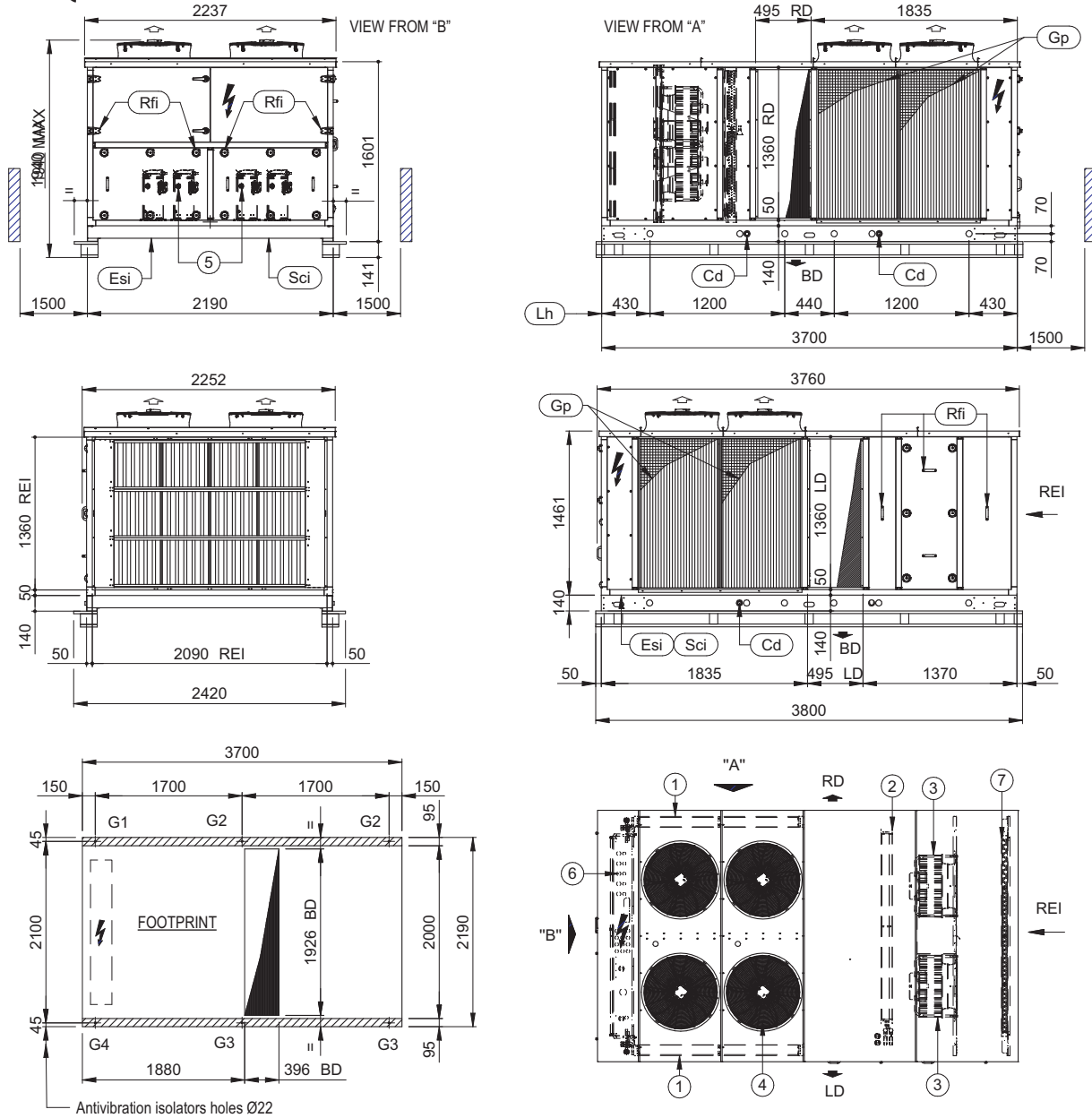
UATYQ50-55ABAY1



4 Dimensional drawings

4 - 1 Dimensional Drawings

UATYQ65-75ABAY1



DENOMINATION

- | | |
|---------------------|---------------------|
| 1) Condensing coil | 5) Compressor |
| 2) Evaporating coil | 6) Electrical panel |
| 3) Discharge fan | 7) EU4 air filter |
| 4) Condensing fan | |

Discharge air direction

BD=Bottom discharge
LD= Left discharge
RD=Right discharge

Intake air direction

REI=Rear intake

Gp	GRID PROTECTIONS	Lh	LIFTING HOLES Ø55		CLEARANCES		
Cd	CONDENSATE DRAIN	Rfi	REMOVE FOR INSPECTION	Esi	ELECTRICAL SUPPLY INLET	Sci	SIGNAL CABLES INLET

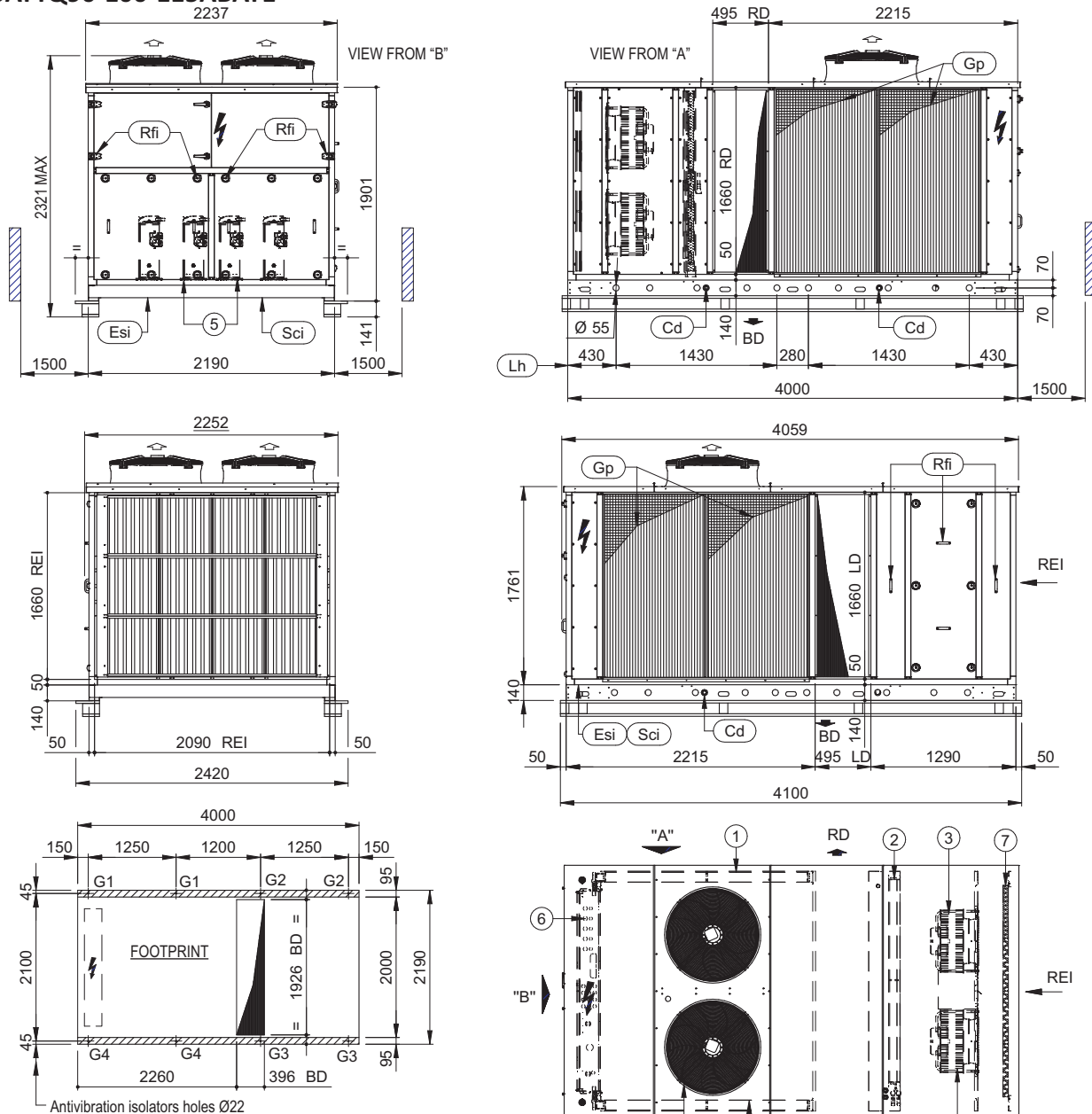
	[Kg]					ANTIVIBRATION ISOLATOR CODE
	OPERATING WEIGHT	G1	G2	G3	G4	
UATYQ65ABAY1	1553	303	209	241	350	UATYQAVM1
UATYQ75ABAY1	1581	308	209	246	363	

DDIM000274A

4 Dimensional drawings

4 - 1 Dimensional Drawings

UATYQ90-100-115ABAY1



DENOMINATION

- | | |
|---------------------|---------------------|
| 1) Condensing coil | 5) Compressor |
| 2) Evaporating coil | 6) Electrical panel |
| 3) Discharge fan | 7) EU4 air filter |
| 4) Condensing fan | |

Discharge air direction →
 BD=Bottom discharge
 LD= Left discharge
 RD=Right discharge

Intake air direction →
 REI=Rear intake

Gp	GRID PROTECTIONS	Lh	LIFTING HOLES Ø55		CLEARANCES		
Cd	CONDENSATE DRAIN	Rfi	REMOVE FOR INSPECTION	Esi	ELECTRICAL SUPPLY INLET	Sci	SIGNAL CABLES INLET

	[Kg]					ANTIVIBRATION ISOLATOR CODE
	OPERATING WEIGHT	G1	G2	G3	G4	
UATYQ90ABAY1	1738	250	175	183	261	UATYQAVM1
UATYQ100ABAY1	1742	251	174	183	263	
UATYQ115ABAY1	1794	264	173	182	278	

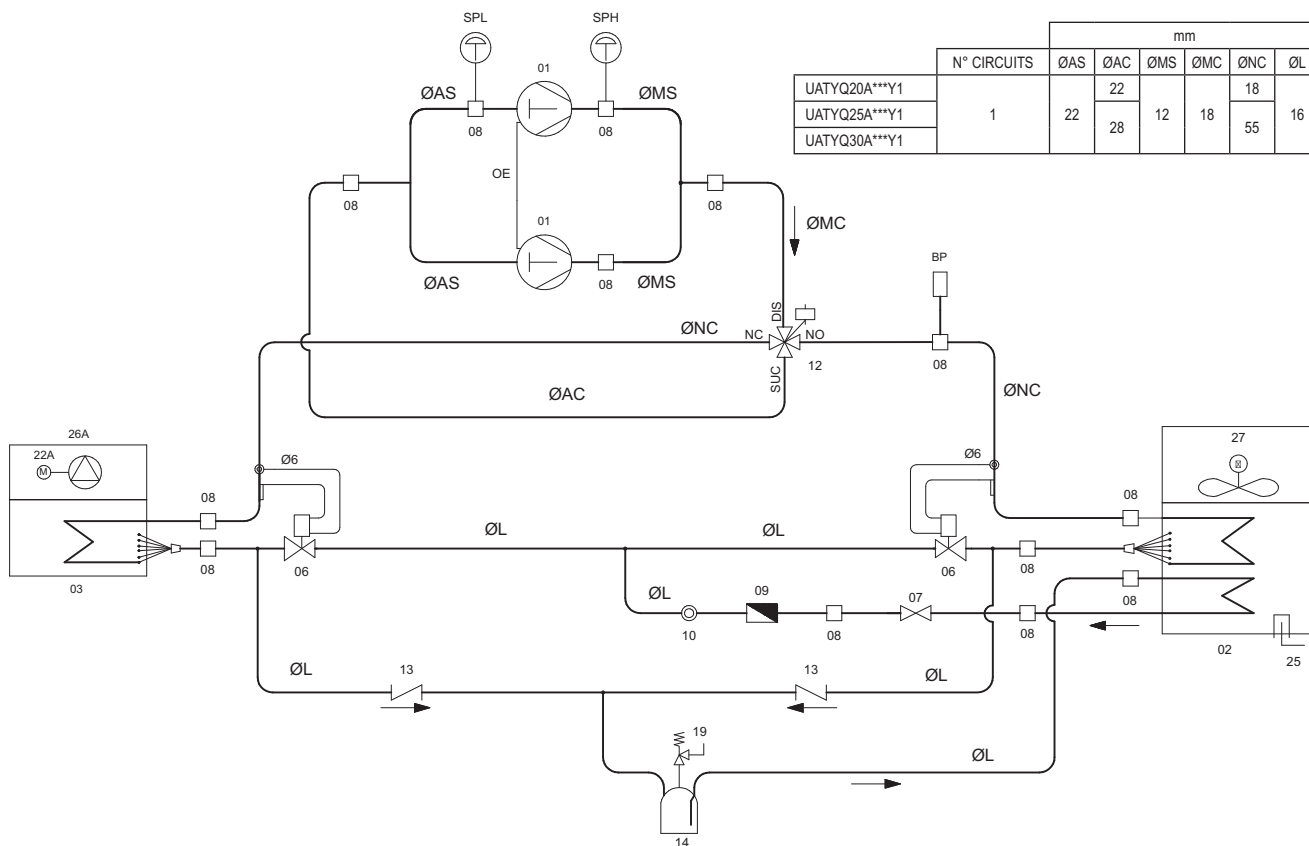
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5 Piping diagrams

5 - 1 Piping Diagrams

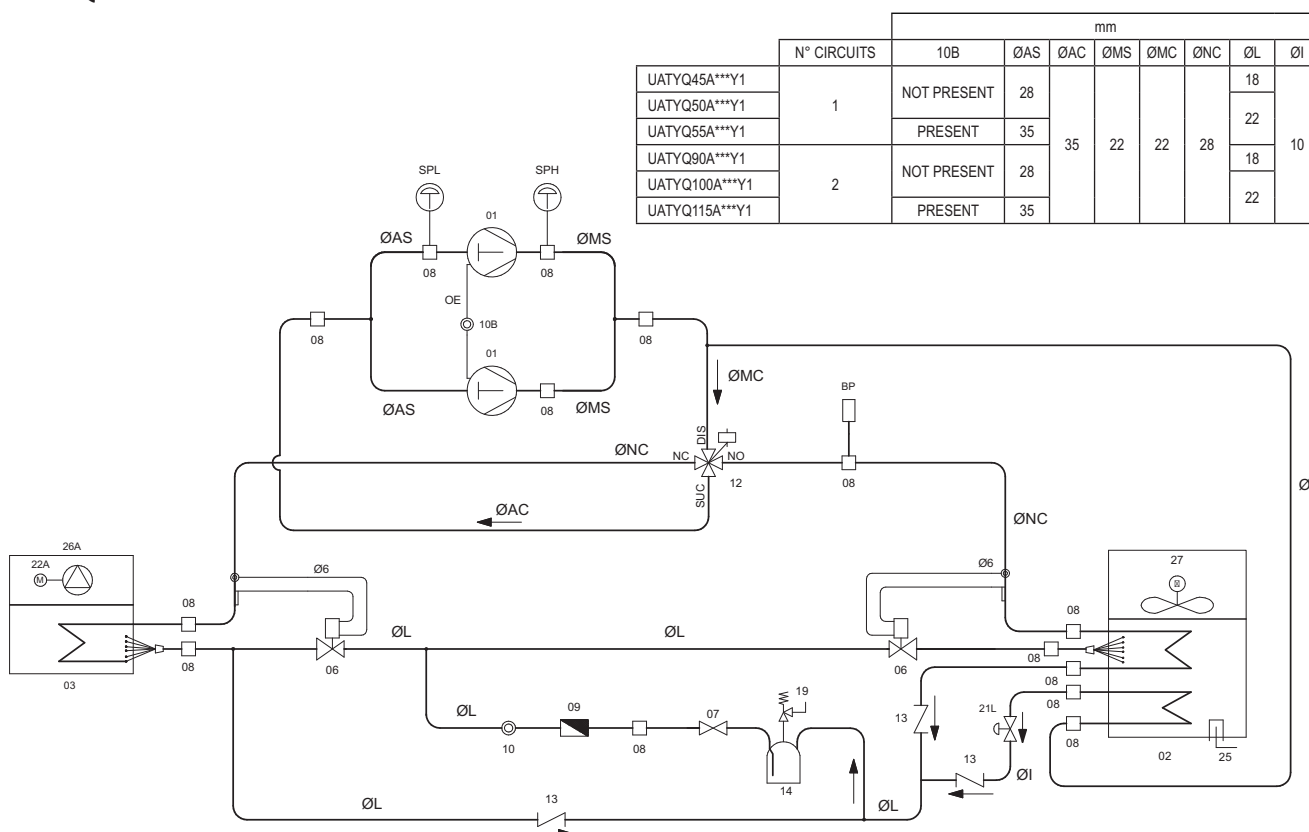
5

UATYQ20-25-30ABAY1 / UATYQ20-25-30AFC2Y1 / UATYQ20-25-30AFC3Y1



DFRI000056C

UATYQ45-50-55-90-100-115ABAY1 / UATYQ45-50-55-90-100-115AFC2Y1 / UATYQ45-50-55-90-100-115AFC3Y1



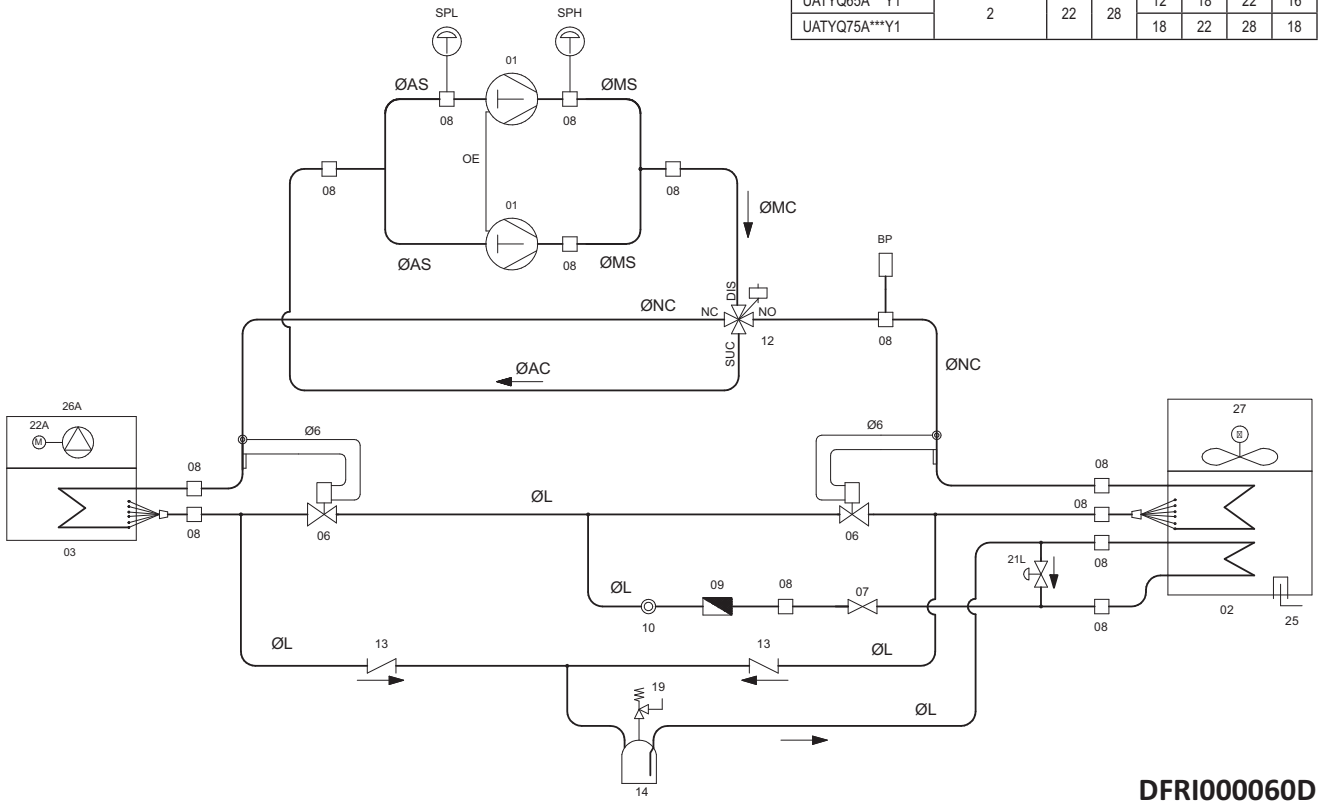
DFRI000056C

5 Piping diagrams

5 - 1 Piping Diagrams

UATYQ65-75ABAY1 / UATYQ65-75AFC2Y1 / UATYQ65-75AFC3Y1

	N° CIRCUITS	mm					
		ØAS	ØAC	ØMS	ØMC	ØNC	ØL
UATYQ65A***Y1	2	22	28	12	18	22	16
UATYQ75A***Y1				18	22	28	18



DFRI000060D

6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

UATYQ-ABAY1 / UATYQ-AFC2Y1 / UATYQ-AFC3Y1

All wiring diagrams can be downloaded from the Daikin Europe Portal (my.daikin.eu) or your local country portal.

7 Sound data

7 - 1 Sound Level Data

UATYQ20,25,30ABAY1 / UATYQ20,25,30AFC2Y1 / UATYQ20,25,30AFC3Y1

MODEL	Octave bands [dB]																Total [dB(A)]	
	63 Hz		125 Hz		250 Hz		500 Hz		1000 Hz		2000 Hz		4000 Hz		8000 Hz			
	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp
UATYQ20A*	71	54	74	57	76	59	72	55	72	55	71	54	65	48	59	42	77	60
UATYQ25A*	72	54	75	57	77	59	73	55	73	55	72	54	66	48	60	42	78	60
UATYQ30A*	72	54	75	57	77	59	73	55	73	55	72	54	66	48	60	42	78	60

Lw: sound power levels on free field calculated based upon ISO 3744. Values refer to basic unit only.

Lp: average sound pressure level at 1 meter on free field on a reflecting surface.

THEORETICAL NOISE ATTENUATION VALUES BASED ON DISTANCE IN FREE FIELD

Distance	(m)	1	2	3	4	5	6	7	8	9	10
Attenuation	(dB)	0	6	9,5	12	14	15,5	17	18	19	20

UATYQ45-50-55ABAY1 / UATYQ45-50-55AFC2Y1 / UATYQ45-50-55AFC3Y1

MODEL	Octave bands [dB]																Total [dB(A)]	
	63 Hz		125 Hz		250 Hz		500 Hz		1000 Hz		2000 Hz		4000 Hz		8000 Hz			
	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp
UATYQ45A*	89	71	86	68	83	65	75	57	72	54	65	47	61	43	52	34	79	61
UATYQ50A*	91	73	88	70	85	67	77	59	75	57	67	49	62	44	53	35	81	63
UATYQ55A*	91	73	88	70	85	67	77	59	75	57	67	49	62	44	53	35	81	63

Lw: sound power levels on free field calculated based upon ISO 3744. Values refer to basic unit only.

Lp: average sound pressure level at 1 meter on free field on a reflecting surface.

THEORETICAL NOISE ATTENUATION VALUES BASED ON DISTANCE IN FREE FIELD

Distance	(m)	1	2	3	4	5	6	7	8	9	10
Attenuation	(dB)	0	6	9,5	12	14	15,5	17	18	19	20

7 Sound data

7 - 1 Sound Level Data

UATYQ65,75,90,100,115ABAY1 / UATYQ65,75,90,100,115AFC2Y1 / UATYQ65,75,90,100,115AFC3Y1

MODEL	Octave band [dB]																Total [dB(A)]	
	63 Hz		125 Hz		250 Hz		500 Hz		1000 Hz		2000 Hz		4000 Hz		8000 Hz			
	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp
65	94	75	90	71	77	58	80	61	76	57	69	50	65	46	53	34	83	64
75	94	75	90	71	77	58	80	61	76	57	69	50	65	46	53	34	83	64
90	93	73	89	69	89	69	81	61	77	57	72	52	79	59	63	43	85	65
100	93	73	89	69	89	69	81	61	77	57	72	52	79	59	63	43	85	65
115	93	73	89	69	89	69	81	61	77	57	72	52	79	59	63	43	85	65

Lw: sound power levels on free field calculated based on ISO 3744. Values refer to basic unit only.

Lp: average sound pressure level at 1 meter on free field on a reflecting surface.

THEORETICAL NOISE ATTENUATION VALUES BASED ON DISTANCE IN FREE FIELD

Distance	(m)	1	2	3	4	5	6	7	8	9	10
Attenuation	(dB)	0	6	9,5	12	14	15,5	17	18	19	20

8 Fan characteristics

8 - 1 Fan Characteristics

UATYQ-ABAY1 / AFC2Y1 / AFC3Y1																																			
			UATYQ 20			UATYQ 25			UATYQ 30			UATYQ 45			UATYQ 50			UATYQ 55			UATYQ 65			UATYQ 75			UATYQ 90			UATYQ 100			UATYQ 115		
			MIN	NOM	MAX*	MIN	NOM	MAX*	MIN	NOM	MAX*	MIN	NOM	MAX*	MIN	NOM	MAX*	MIN	NOM	MAX*	MIN	NOM	MAX*	MIN	NOM	MAX*	MIN	NOM	MAX*	MIN	NOM	MAX*			
DECLARED AIR FLOW [m³/h]			3960	4950	5445	5808	7260	7986	6600	8250	9075	8800	11000	12100	9680	12100	13310	10560	13200	14520	12320	15400	16940	14080	17600	19360	16720	20900	22990	18920	23650	26015	20240	25300	27830
SUPPLY FAN (for version UATYQ***ABAY1 / UATYQ***AFC2Y1 / UATYQ***AFC3Y1)																																			
Available external static pressure																																			
50	Pa		3960	4950	5445	5808	7260	7986	6600	8250	9075	8800	11000	12001	9680	12100	13310	10560	13200	14520	12320	15400	16940	14080	17600	19360	16720	20900	22990	18920	23650	26015	20240	25300	27830
100	Pa		3960	4950	5445	5808	7260	7986	6600	8250	9075	8800	11000	11826	9680	12100	13310	10560	13200	14520	12320	15400	16940	14080	17600	19360	16720	20900	22990	18920	23650	26015	20240	25300	27830
150	Pa		3960	4950	5445	5808	7260	7986	6600	8250	9075	8800	11000	11594	9680	12100	13310	10560	13200	14520	12320	15400	16940	14080	17600	19360	16720	20900	22990	18920	23650	26015	20240	25300	27830
200	Pa		3960	4950	5445	5808	7260	7986	6600	8250	9075	8800	11000	11300	9680	12100	13310	10560	13200	14520	12320	15400	16940	14080	17600	19360	16720	20900	22839	18920	23650	26015	20240	25300	27830
250	Pa		3960	4950	5107	5808	7260	7986	6600	8250	9075	8800	11000	11000	9680	12100	13310	10560	13200	14520	12320	15400	16940	14080	17600	19258	16720	20900	22187	18920	23650	26015	20240	25300	26721
300	Pa		3960	4950	4950	5808	7260	7986	6600	8250	9075	8800	11000	11000	9680	12100	13310	10560	13200	14520	12320	15400	16940	14080	17600	18498	16720	20900	21465	18920	23650	25775	20240	25300	25300
RETURN FAN (only for version UATYQ***AFC3Y1)																																			
Available external static pressure																																			
50	Pa	/	/	/	/	/	/	/	/	/	/	8800	11000	11706	9680	12100	13310	10560	13200	14520	12320	15400	16940	14080	17600	19360	16720	20900	22990	18920	23650	24880	20240	25300	27830
100	Pa	/	/	/	/	/	/	/	/	/	/	8800	11000	11425	9680	12100	13310	10560	13200	14520	12320	15400	16940	14080	17600	19360	16720	20900	22990	18920	23650	24422	20240	25300	27830
150	Pa	/	/	/	/	/	/	/	/	/	/	8800	11000	11162	9680	12100	13310	10560	13200	14520	12320	15400	16940	14080	17600	19360	16720	20900	22990	18920	23650	24117	20240	25300	27830
200	Pa	/	/	/	/	/	/	/	/	/	/	8800	11000	11000	9680	12100	13310	10560	13200	14520	12320	15400	16940	14080	17600	19360	16720	20900	22990	18920	23650	23800	20240	25300	27830
250	Pa	/	/	/	/	/	/	/	/	/	/	8800	11000	11000	9680	12100	13310	10560	13200	14520	12320	15400	16940	14080	17600	19360	16720	20900	22990	18920	23650	23650	20240	25300	27830
300	Pa	/	/	/	/	/	/	/	/	/	/	8800	11000	11000	9680	12100	13310	10560	13200	14520	12320	15400	16940	14080	17600	19360	16720	20900	22842	18920	23650	23650	20240	25300	27830
* The maximum airflow is related to the available pressure required. Check the table below to get the maximum airflow for the different available pressures.																																			

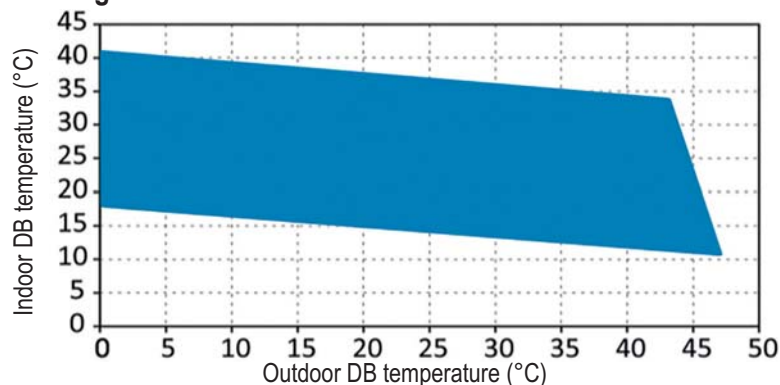
9 Operation range

9 - 1 Operation Range

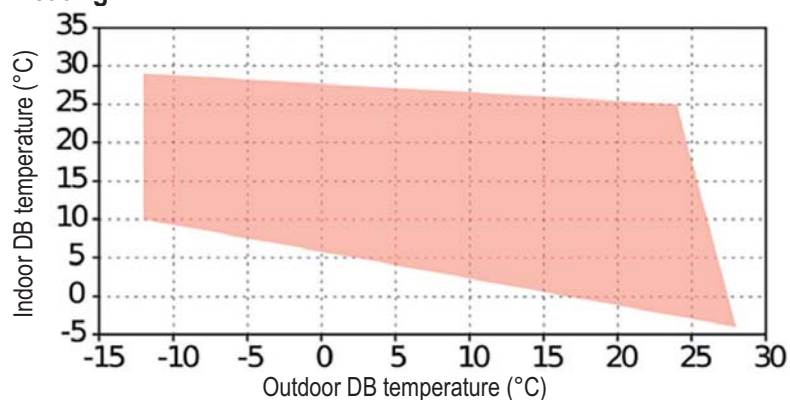
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UATYQ20-25-30ABAY1 / UATYQ20-25-30AFC2Y1 / UATYQ20-25-30AFC3Y1

Cooling

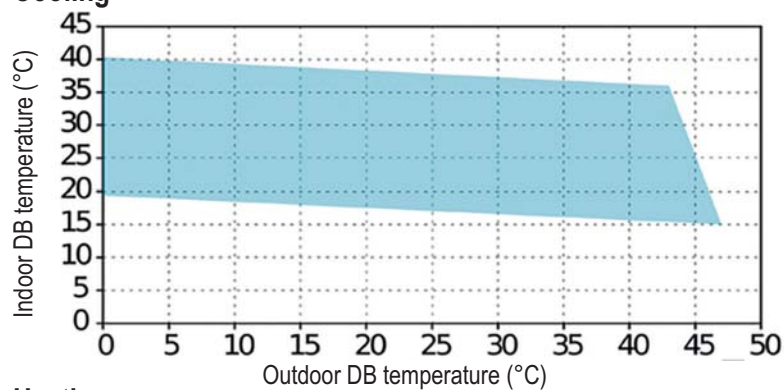


Heating

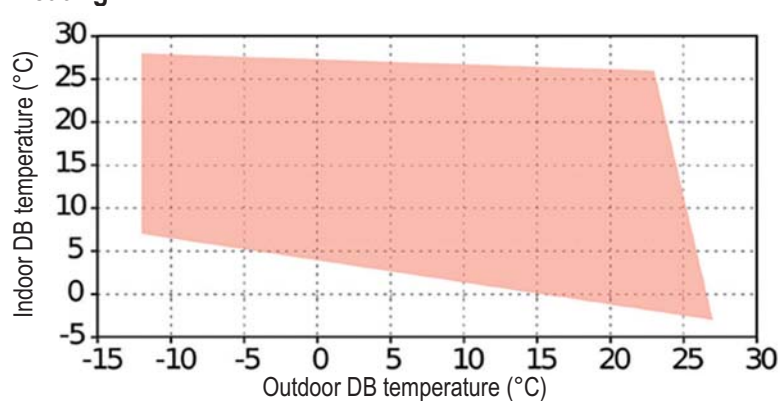


UATYQ45-50-55-65-75-90-100-115ABAY1 / UATYQ45-50-55-65-75-90-100-115AFC2Y1 / UATYQ45-50-55-65-75-90-100-115AFC3Y1

Cooling



Heating





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