



# Inverter Cassette XPower 42QTD



3D DC Inverter



Timer



Sleep Mode



Dry Mode



Turbo Mode



United Technologies  
turn to the experts 

Compact design for easy installation  
in any indoor application



**R32**  
REFRIGERANT 

**R410A**  
REFRIGERANT





### **EUROVENT CERTIFIED PERFORMANCE:**

Eurovent Certification certifies the performance ratings of the air-condition unit according to European and international standards.



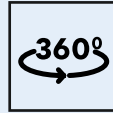
### **BUILT-IN DRAIN PUMP:**

The drain pump can remove the condensing water from the unit, up to 750mm high. The drainage piping is easy to install even at narrow spaces.



### **3D DC INVERTER:**

The outdoor unit is equipped with DC inverter technology compressor and DC inverter fan motor. The indoor unit is also equipped with a DC inverter fan motor. With 3 DC inverter motors the unit achieves maximum performance and energy efficiency.



### **360° AIR FLOW:**

Cassette sizes from 24,000 to 60,000 BTU can distribute airflow evenly to all directions, without "blind-spots", achieving equal temperature across the room.



### **TWIN-ROTARY COMPRESSORS:**

Units from 24,000 to 60,000 BTU are equipped with DC Twin-Rotary compressors, which contribute to the system's high performance and reliability. The two-rotary compression cylinders, offset from each other by 180° and a DC brushless motor with the shaft in perfect balance, ensure reduced vibrations and lower noise levels even when operating at very low speeds. They have an extremely wide range between the minimum and maximum capacity, therefore the system is always optimized to provide maximum comfort with extremely high efficiency levels.

## Instalation Flexibility

### **- Compact design:**

With its small size it can fit to all suspended ceiling installations. It is ideal for offices and large spaces.

### **- Reserved air outlet for duct:**

A reserved outlet on the side of the indoor unit allows the connection of an air duct to provide air conditioning to nearby rooms from a single unit.

### **- Fresh air intake:**

A ventilation motor can be installed in the fresh-air duct, connected to the ventilation connector, and work with the indoor fan to increase the volume of fresh air.

### **- Reserved dry contact ports:**

With the reserved ports, a remote switch can be easily connected for a remote control. The built-in PCB can produce alarm signal which can be connected to an external alarm light or vibration gauge.

**SINGLE PHASE**

INDOOR UNIT		42QTD009DS-1	42QTD012DS-1	42QTD018DS-1	42QTD024DS-1	42QTD030DS-1	42QTD036DS-1	42QTD048DS-1
OUTDOOR UNIT		38QUS009DS-1	38QUS012DS-1	38QUS018DS-1	38QUS024DS-1	38QUS030DS-1	38QUS036DS-1	38QUS048DS-1
Cooling capacity	kW	2.64 (0.9-3.7)	3.52 (1.4-3.9)	5.00 (2.0-5.5)	7.03 (2.5-8.0)	8.40 (2.1-10.5)	10.2 (4.5-11.0)	13.4 (4.8-14.0)
Heating capacity	kW	3.00 (0.8-3.8)	4.00 (1.2-4.2)	5.50 (2.0-6.0)	7.03 (2.5-8.5)	9.10 (2.1-10.5)	11.3 (3.7-13.7)	15.5 (5.4-16.0)
Heating capacity at -7°C	kW	2,7	2,7	3,9	5,4	6,6	9,7	10,4
Heating capacity at -10°C	kW	2,6	2,7	3,9	5	6,1	8,3	9,9
Heating capacity at -15°C	kW	2,2	2,4	2,2	3,7	5,5	8,2	8,4
SEER/SCOP (average)/SCOP (warmer)	W/W	6.2 / 4.0 / 5.1	6.2 / 4.1 / 5.1	6.0 / 4.0 / 5.1	6.1 / 4.0 / 4.8	6.4 / 4.0 / 5.2	6.0 / 4.0 / 5.0	5.5 / 4.0 / 5.0
Energy label		A++ / A+ / A+++	A++ / A+ / A+++	A+ / A+ / A+++	A++ / A+ / A++	A++ / A+ / A+++	A+ / A+ / A++	A / A+ / A++
Yearly energy consumption	kWh	149/837/714	199/1002/960	293/1365/1345	403/1937/2277	459/2453/1950	588/3244/2894	852/3756/3323
EER/COP	W/W	3.5/3.7	3.1/3.6	2.8/3.1	3.0/3.2	3.0/3.8	2.7/3.4	2.4/2.9
Standard current (cooling)	A	3,4	5	8,1	10,5	12,4	16,6	24,1
Standard input (cooling)	W	740	1140	1800	2400	2780	3750	5530
Standard current (heating)	A	3,6	4,7	7,5	9,6	10,6	15,2	23,1
Standard input (heating)	W	820	1080	1700	2180	2300	3300	5300

INDOOR UNIT		42QTD009DS-1	42QTD012DS-1	42QTD018DS-1	42QTD024DS-1	42QTD030DS-1	42QTD036DS-1	42QTD048DS-1
Sound power level	dB(A)	58	59	60	61	65	65	67
Sound pressure level (high/med/low)	dB(A)	42/39/36	42/39/36	45/42/36	49/46/43	50/48/44	53/51/48	51/49/47
Air flow (high/med/low)	m³/h	560/430/390	560/430/390	650/530/370	1350/1200/1070	1390/1110/750	1800/1600/1400	1900/1600/1330
Weight (net/gross) (Body)	kg	15.0/18.0	16.5/19.0	16.5/19.0	24.5/30.0	26.5/30.5	27.5/31.5	28/32.1
Weight (net/gross) (Panel)	kg	2.5/4.5	2.5/4.5	2.5/4.5	5 / 8	5 / 8	5 / 8	5 / 8
Dimensions (WxDxH) (Body)	mm	570x570x260	570x570x260	570x570x260	840x840x245	840x840x245	840x840x245	840x840x287
Dimensions (WxDxH) (Panel)	mm	647x647x50	647x647x50	647x647x50	950x950x55	950x950x55	950x950x55	950x950x55

OUTDOOR UNIT		38QUS009DS-1	38QUS012DS-1	38QUS018DS-1	38QUS024DS-1	38QUS030DS-1	38QUS036DS-1	38QUS048DS-1
Temp range cooling	°C	-10 - 46	-10 - 46	-10 - 46	-10 - 46	-10 - 46	-10 - 46	-10 - 46
Temp range heating	°C	-15 - 24	-15 - 24	-15 - 24	-15 - 24	-15 - 24	-15 - 24	-15 - 24
Refrigerant amount	kg	0,72	1,05	1,7	2,05	2,8	3,2	4
Liquid side/Gas side	inn	1/4 - 3/8	1/4 - 3/8	1/4 - 1/2	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8
Standard piping length	m	5	5	5	5	5	5	5
Min piping length	m	3	3	3	3	3	3	3
Max piping length	m	25	25	30	40	50	50	50
Max difference	m	10	10	20	20	25	25	25
Additional charge	g/m	15	15	15	30	30	15	15
Sound power level	dB(A)	64	65	65	69	70	70	75
Sound pressure level	dB(A)	54	56	57	61	62	64	64
Air flow	m³/h	1900	2100	2100	2700	4300	4150	6800
Weight (net/gross)	kg	26.0/29.0	28.5 / 31.5	38.0/40.5	50/54.5	62.9/68.5	67.2/72.9	95.1/108.4
Dimensions (WxDxH)	mm	770x300x555	800x333x554	800x333x554	845x363x702	946x410x810	946x410x810	952x415x1333
Voltage/Hz/Ph		220-240V / 50Hz / 1Ph						

Note  
 \* Sound data @ cooling mode  
 \* -7°C / -10°C / -15°C heating @ free frequency

\* Preliminary Data

**THREE PHASE**

INDOOR UNIT		42QTD036DS-1	42QTD048DS-1	42QTD060DS-1
OUTDOOR UNIT		38QUS036DT-1	38QUS048DT-1	38QUS060DT-1
Cooling capacity	kW	10.2 (3.8-11.5)	13.4 (4.8-14.0)	15.1 (5.0-16.0)
Heating capacity	kW	11.3 (2.9-13.8)	15.5 (5.4-16.0)	18.0 (3.9-18.2)
Heating capacity at -7°C	kW	9,6	10,5	12,2
Heating capacity at -10°C	kW	8,2	10	11,9
Heating capacity at -15°C	kW	8,1	8,5	9,8
SEER/SCOP (average)/SCOP (warmer)	W/W	5.9 / 4.0 / 5.0	5.6 / 4.0 / 5.1	5.7 / 4.0 / 5.2
Energy label		A+ / A+ / A++	A+ / A+ / A+++	A+ / A+ / A+++
Yearly energy consumption	kWh	610/3360/2885	834/3847/3231	929/3916/3225
EER/COP	W/W	2.6/3.4	2.5/3.0	2.4/3.1
Standard current (cooling)	A	6	8,9	10,6
Standard input (cooling)	W	3890	5310	6240
Standard current (heating)	A	5,3	8,5	9,5
Standard input (heating)	W	3300	5130	5760

INDOOR UNIT		42QTD036DS-1	42QTD048DS-1	42QTD060DS-1
Sound power level	dB(A)	65	67	70
Sound pressure level (high/med/low)	dB(A)	53/51/48	51/49/47	54/52/49
Air flow (high/med/low)	m³/h	1800/1600/1400	1900/1600/1330	2000/1780/1580
Weight (net/gross) (Body)	kg	27.5/31.5	28/32.1	31/34
Weight (net/gross) (Panel)	kg	05-Aug	05-Aug	05-Aug
Dimensions (WxDxH) (Body)	mm	840x840x245	840x840x287	840x840x287
Dimensions (WxDxH) (Panel)	mm	950x950x55	950x950x55	950x950x55

OUTDOOR UNIT		38QUS036DT-1	38QUS048DT-1	38QUS060DT-1
Temp range cooling	°C	-10 - 46	-10 - 46	-10 - 46
Temp range heating	°C	-15 - 24	-15 - 24	-15 - 24
Refrigerant amount	kg	3,65	4	4,3
Liquid side/Gas side	inn	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8
Standard piping length	m	5	5	5
Min piping length	m	3	3	3
Max piping length	m	50	50	50
Max difference	m	25	25	25
Additional charge	g/m	15	15	30
Sound power level	dB(A)	70	75	77
Sound pressure level	dB(A)	64	64	64
Air flow	m³/h	4150	6800	7000
Weight (net/gross)	kg	85.3/91	108.1/121.2	112.8/126
Dimensions (WxDxH)	mm	946x410x810	952x415x1333	952x415x1333
Voltage/Hz/Ph		380-415V / 50Hz / 3Ph		

Note

\* Sound data @ cooling mode

\* -7°C / -10°C / -15°C heating @ free frequency

\* Preliminary Data

		SINGLE PHASE			THREE PHASE		
INDOOR UNIT		42QTD018R8S	42QTD024R8S	42QTD036R8S	42QTD036R8S	42QTD048R8S	42QTD060R8S
OUTDOOR UNIT		38QUS018R8S	38QUS024R8S	38QUS036R8S	38QUS036R8T	38QUS048R8T	38QUS060R8T
Cooling capacity	kW	5.20(2.60-5.70)	7.05(3.20-7.90)	10.50(3.90-10.60)	10.50(4.00-10.70)	14.00(4.70-14.60)	15.40(5.20-16.70)
Heating capacity	kW	5.50(2.30-5.80)	7.20(2.80-8.80)	10.60(2.90-13.50)	10.80(2.90-14.10)	15.60(3.90-16.80)	18.00(4.30-19.30)
Heating capacity at -7°C	kW	3,90	5,40	9,70	9,60	10,50	12,20
Heating capacity at -10°C	kW	3,90	5,00	8,30	8,20	10,00	11,90
Heating capacity at -15°C	kW	2,20	3,70	8,20	8,10	8,50	9,80
SEER/SCOP (average)/SCOP (warmer)	W/W	6.9 / 4.0 / 5.1	6.1 / 4.0 / 5.1	6.1 / 4.0 / 4.9	6.1 / 4.0 / 4.9	6.1 / 4.0 / 4.6	6.1 / 4.0 / 5.1
Energy label		A++ / A+ / A+++	A++ / A+ / A+++	A++ / A+ / A++	A++ / A+ / A++	A++ / A+ / A++	A++ / A+ / A+++
Yearly energy consumption	kWh	264 / 1645 / 1290	405 / 1855 / 1620	602 / 3045 / 3000	602 / 2835 / 3000	803 / 3850 / 3591	884 / 4130 / 3376
EER/COP	W/W	3.34 / 3.74	2.95 / 3.93	2.61 / 3.53	2.80 / 3.71	2.72 / 3.10	2.53 / 2.94
Standard current (cooling)	A	7,7	9,9	16,5	6,6	9,2	10,2
Standard input (cooling)	W	1700	2180	3740	3950	5150	6080
Standard current (heating)	A	6,8	8,4	13,3	5	8,2	10,3
Standard input (heating)	W	1500	1830	2970	2910	5040	6130

INDOOR UNIT		42QTD018R8S	42QTD024R8S	42QTD036R8S	42QTD036R8S	42QTD048R8S	42QTD060R8S
Sound power level	dB(A)	57	61	62	62	65	65
Sound pressure level (high/med/low)	dB(A)	45 / 40 / 37	46 / 43 / 40	51 / 49 / 46	51 / 49 / 46	52 / 50 / 49	53 / 50 / 48
Air flow (high/med/low)	m³/h	1040 / 870 / 760	1380 / 1200 / 1030	1770 / 1620 / 1440	1770 / 1620 / 1440	1720 / 1570 / 1380	1970 / 1740 / 1540
Weight (net/gross) (Body)	kg	21.5 / 25.0	24.0 / 28.0	27.5 / 31.0	27.5 / 31.0	29.0 / 33.0	29.0 / 33.0
Weight (net/gross) (Panel)	kg	6.0 / 9.0	6.0 / 9.0	6.0 / 9.0	6.0 / 9.0	6.0 / 9.0	6.0 / 9.0
Dimensions (WxDxH) (Body)	mm	840×840×205	840×840×205	840×840×245	840×840×245	840×840×287	840×840×287
Dimensions (WxDxH) (Panel)	mm	950×950×55	950×950×55	950×950×55	950×950×55	950×950×55	950×950×55

OUTDOOR UNIT		38QUS018R8S	38QUS024R8S	38QUS036R8S	38QUS036R8T	38QUS048R8T	38QUS060R8T
Temp range cooling	°C	-15-50	-15-50	-15-50	-15-50	-15-50	-15-50
Temp range heating	°C	-15-24	-15-24	-15-24	-15-24	-15-24	-15-24
Refrigerant amount	kg	1,35	1,5	2,4	2,4	2,8	2,95
Liquid side/Gas side	inn	1/4 - 1/2	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8
Standard piping length	m	5	5	5	5	5	5
Min piping length	m	3	3	3	3	3	3
Max piping length	m	30	50	65	65	65	65
Max difference	m	20	25	30	30	30	30
Additional charge	g/m	12	24	24	24	24	24
Sound power level	dB(A)	65	67	69	69	75	77
Sound pressure level	dB(A)	57	61	64	64	66	66
Air flow	m³/h	2100	2700	4000	4000	7500	7500
Weight (net/gross)	kg	35.5 / 38.5	49.5 / 53.0	67.0 / 73.5	81.5 / 87.0	107.0 / 120.0	112.0 / 125.0
Dimensions (WxDxH)	mm	800×333×554	845×363×702	946×410×810	946×410×810	952×415×1333	952×415×1333
Voltage/Hz/Ph		380-415V / 50Hz / 3Ph					

Note  
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 \* -7°C / -10°C / -15°C heating @ free frequency

\* Preliminary Data

## Basics Features

	Auto Leak Detection	●		TURBO Turbo Mode	●		Cold Draft Prevention	●
	Auto Defrost	●		Sleep Mode	●		Electrical Voltage Protection (168 To 264V)	●
	Auto Swing	●		Dry Mode	●		Bright LCD Screen Remote Control	●
	Auto Restart	●		"My" Mode	●		Wired Control	○
	Timer	●		Louver Position Memory	●			