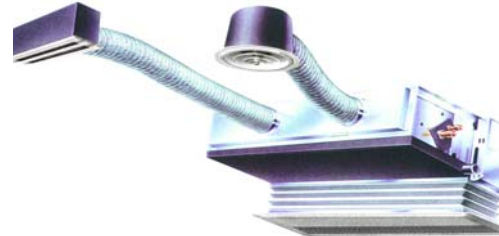


Duct Type

Part 1. Product Features

1. Economic and convenient installation

- Several diffusers branch off from an indoor unit, adjusting the room temperature, which makes many rooms to be air conditioned with only one indoor unit
- All models feature thin design making them applicable to ceiling pocket that tends to be shallow



2) A wild variety of optional accessories

- Including front clapboard, panel, canvas air passage, filter, etc.



Canvas air passage



Clapboard



Panel

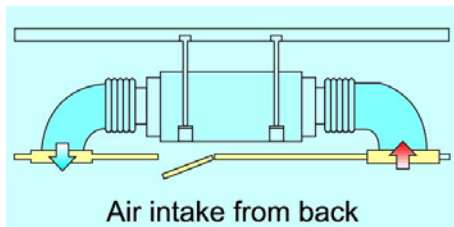
3) A long-life and high-efficiency filter



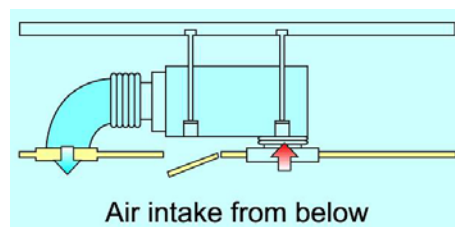
Filter

4) Way of air intake and inserting air filter

- Air intake can be positioned either at the back or below the unit. Similarly, the air filter also can be inserted either from the back or from the bottom of the unit.



Air intake from back



Air intake from below

Part 2. Specification

R407C

Model			DITA-18HRN2	DITA-24HRN2	DITA-24HRN2
Power supply		Ph-V-Hz	1, 220-240V~, 50Hz	1, 220-240V~, 50Hz	3,380V, 3N~,50Hz
Cooling	Capacity	Btu/h	18000	24000	24000
	Input	W	2200	2930	2930
	Rated current	A	10	13.3	4.5
	EER	Btu/W.h	8.2	8.2	8.2
Heating	Capacity	Btu/h	21000	27600	27600
	Input	W	2000	3050	2850
	Rated current	A	9.1	13.9	4.3
	COP	Btu/W.h	10.5	9	9.7
Moisture Removal		L/h	1.9	2.4	2.4
Max. input consumption		W	2750	4400	5000
Max. input current		A	12.5	22	8
Starting current		A	45	44	25
Compressor	Model		PG330X2CS-4KU3	HQ034PAA	C-SBN263H8A
	Type		Rotary	SCROLL	Scroll
	Brand		TOSHIBA	LG	SANYO
	Supplier		TOSHIBA	LG(KOREA)	SANYO
	Capacity	Btu/h	20130/20267	29000	33788
	Input	W	1980/2105	2760	3500
	Rated current(RLA)	A	9.7/10.3	12.4	6.33
	Locked rotor Amp(LRA)	A	50	61	33
	Thermal protector		INTERNAL TYPE	INTERNAL TYPE	INTERNAL TYPE
	Capacitor	uF	40	60	/
	Refrigerant oil	ml	750	750	DAPHN-E FV68S 1700
Indoor fan motor	Model		YSK55-4D	YSK74-4C	YSK74-4C
	Brand		Welling	Welling	Welling
	Input	W	120	170	170
	Capacitor	uF	3	4	4
	Speed(hi/lo)	r/min	740/630	740/630	740/630
Indoor coil	a.Number of rows		2	3	3
	b.Tube pitch(a)x row pitch(b)	mm	25.4X22	25.4X22	25.4X22
	c.Fin spacing	mm	1.7	1.7	1.7
	d.Fin type (code)		Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ9.53, bare tube	Φ9.53, bare tube	Φ9.53, bare tube
	f.Coil length x height x width	mm	800x254x44	800x254x66	800x254x66
	g.Number of circuits		3	3	3
Indoor air flow (Hi/Lo)		m ³ /h	1000/850	1300/1100	1300/1100
Indoor noise level (Hi/Lo)		dB(A)	41/35	48/45	48/45
Indoor unit	Dimension (W*H*D)	mm	1000X300X800	1000X300X800	1000X300X800
	Packing (W*H*D)	mm	1205x370x940	1205x370x940	1205x370x940

	Net/Gross weight	kg	36/43	38/45	38/45
Outdoor fan motor	Model		YDK53-6K	YDK53-6H	YDK53-6H
	Brand		WELLING	WELLING	WELLING
	Input	W	130	140	130
	Capacitor	uF	3	3	3
	Speed	r/min	800	800	800
Outdoor coil	a.Number of rows		2	2	2
	b.Tube pitch(a)x row pitch(b)	mm	25.4x22	25.4x22	25.4x22
	c.Fin spacing	mm	1.4	1.5	1.5
	d.Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ 9.53, innergroove tube	Φ 9.53, innergroove tube	Φ 9.53, innergroove tube
	f.Coil length x height x width	mm	638X660X44	850X810X44	850*810*44
	g.Number of circuits		3	4	4
Outdoor air flow		m ³ /h	2400	3000	3000
Outdoor noise level		dB(A)	48	55	52
Outdoor unit	Dimension(W*H*D)	mm	845X695X335	895X860X330	895X860X330
	Packing (W*H*D)	mm	965X847X395	972X987X406	972X987X406
	Net/Gross weight	kg	55/58	79/90	79/90
Refrigerant type		g	R407C/2100	R407C/2500	R407C/2350
Design pressure		MPa	1.2/2.8	1.2/2.8	1.2/2.8
Refrigerant piping	Liquid side/ Gas side	mm	Φ 6.35(1/4")/Φ 12.7(1/2")	Φ 9.53/Φ 16	Φ 9.53/Φ 16
	Max. refrigerant pipe length	m	15	15	15
	Max. difference in level	m	8	8	8
Connection wiring		mm ²	No	No	No
Plug type			No	No	No
Controller			Remote	Remote	Remote
Operation temp		°C	17-30	17-30	17-30
Ambient temp		°C	—7-45	—7-45	—7-45
Application area		m ²	30-40	40-56	40-56
Qty'per 20' /40' /40'HQ		set	34/76/94	34/76/94	34/76/94

Notes: 1. Nominal cooling capacities are based on the following conditions:

Indoor temp: 27°CDB, 19°CWB; Outdoor temp: 35°CDB;

2. Nominal heating capacities are based on the following conditions:

Indoor temp: 20°CDB; Outdoor temp: 7°CDB, 6°CWB;

3. Actual noise level may differ, depending on the room structure, etc, since these noise values are from an anechoic room.

R407C

Model			DITA-30HRN2	DITA-36HRN2	DITAT-36HRN2	DITA-48HRN2
Power supply		Ph-V-Hz	1, 220-240V~,50Hz	1, 220-240V~,50Hz	3N, 380V~, 50Hz	3N, 380V~, 50Hz
Cooling	Capacity	Btu/h	30000	36000	36000	48000
	Input	W	3660	4300	4250	5400
	Rated current	A	18.5	19.6	7.8	10.0
	EER	Btu/W.h	8.2	8.4	8.5	8.9
Heating	Capacity	Btu/h	36000	40000	40000	53000
	Input	W	3950	4600	4550	5700
	Rated current	A	18.0	20.9	8.4	11.0
	COP	Btu/W.h	9.1	8.7	8.8	9.3
Moisture Removal		L/h	3	3.6	3.6	4.6
Max. input consumption		W	5720	6150	6100	7100
Max. input current		A	26.0	28.0	11.0	12.1
Starting current		A	45	45	50	50
Compressor	Model		C-SBN301H5A	C-SBN301H5A	C-SBN303H8A	C-SBN373H8A
	Type		Scroll	Scroll	Scroll	Scroll
	Brand		SANYO	SANYO	SANYO	SANYO
	Supplier		SANYO(Dalian)	SANYO(Dalian)	SANYO(Dalian)	SANYO(Dalian)
	Capacity	Btu/h	39602	39602	39067	49474
	Input	W	4000	4000	4000	4950
	Rated current(RLA)	A	17.3	17.3	7	8.5
	Locked rotor Amp(LRA)	A	50	50	65.8	50
	Thermal protector		Internal type	Internal type	Internal type	Internal type
	Capacitor	uF	60uF/450V	60uF/450V	—	—
	Refrigerant oil	ml	DAPHN-E FV68S 1700	DAPHN-E FV68S 1700	DAPHN-E FV68S 1700	DAPHN-E FV68S 1700
Indoor fan motor	Model		YSK59-4A	YSK59-4A	YSK59-4A	YSK59-4A
	Brand		WELLING	WELLING	WELLING	WELLING
	Input	W	246	246	246	246
	Capacitor	uF	2.5uF/450V	2.5uF/450V	2.5uF/450V	4uF/450V
	Speed(hi/lo)	r/min	870/670/600	870/670/600	870/670/600	870/670/600
Indoor coil	a.Number of rows		3	3	3	3
	b.Tube pitch(a)x row pitch(b)	mm	25.4X22	25.4X22	25.4X22	25.4X22
	c.Fin spacing	mm	1.7	1.7	1.7	1.7
	d.Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ9.53, innergroove tube	Φ9.53, innergroove tube	Φ9.53, innergroove tube	Φ9.53, innergroove tube
	f.Coil length x height x width	mm	1150x254x44	1150x254x44	1150x254x44	1150x254x66
	g.Number of circuits		4			
Indoor air flow (Hi/Lo)		m ³ /h	1800/1600	1800/1600	1800/1600	2000/1800
Indoor noise level (Hi/Lo)		dB(A)	47/42	47/42	47/42	49/45
Indoor unit	Dimension (W*H*D)	mm	1350X300X800	1350X300X800	1350X300X800	1350X300X800
	Packing (W*H*D)	mm	1555x370x940	1555x370x940	1555x370x940	1555x370x940
	Net/Gross weight	kg	48/57	48/57	48/57	50/59
Model			YDK250-6D-WL	YDK250-6D-WL	YDK250-6D-WL	YDK65-6WL;YDK65-6F

Outdoor fan motor	Model		YDK250-6D-WL	YDK250-6D-WL	YDK250-6D-WL	YDK65-6WL;YDK65-6F
	Brand	W	WEIHING	WEIHING	WEIHING	WEIHING
	Capacitor	uF	10	10	10	3.5x2
	Speed	r/min	740	740	740	800
Outdoor coil	a.Number of rows		2			
	b.Tube pitch(a)x row pitch(b)	mm	25.4x22	25.4x22	25.4x22	25.4x22
	c.Fin spacing	mm	1.7	1.7	1.7	1.8
	d.Fin type (code)		Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ 9.53,innergroove tube	Φ 9.53,innergroove tube	Φ 9.53,innergroove tube	Φ 9.53, bare tube
	f.Coil length x height x width	mm	955*915*44	955*915*44	955*915*44	715X1220X44
	g.Number of circuits		8	8	8	4
Outdoor air flow		m ³ /h	5000	5000	5000	5000
Outdoor noise level		dB(A)	57	57	57	57
Outdoor unit	Dimension(W*H*D)	mm	990X960X360	990X960X360	990X960X360	940X1245X360
	Packing (W*H*D)	mm	1120X1090X435	1120X1090X435	1120X1090X435	1018X1377X435
	Net/Gross weight	kg	101/106	101/106	101/106	110/125
Refrigerant type		g	R407C/2700	R407C/2700	R407C/2700	R407C/4050
Design pressure		MPa	1.2/2.8	1.2/2.8	1.2/2.8	1.2/2.8
	Liquid side/ Gas side	mm	Φ 12.7/Φ 19.0	Φ 12.7/Φ 19.0	Φ 12.7/Φ 19.0	Φ 12.7/Φ 19.0
	Max. refrigerant pipe length	m	15	15	15	15
	Max. difference in level	m	8	8	8	8
Connection wiring		mm ²	No	No	No	No
Plug type			No	No	No	No
Controller			Remote	Remote	Remote	Remote
Operation temp		°C	17-30	17-30	17-30	17-30
Ambient temp		°C	—7-45	—7-45	—7-45	—7-45
Application area		m ²	60-85	60-85	60-85	80-105
Qty'per 20' /40' /40'HQ		set	24/52/62	24/52/62	24/52/62	23/47/50

Notes: 1. Nominal cooling capacities are based on the following conditions:

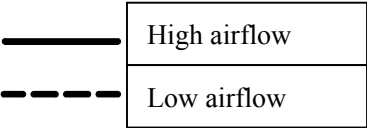
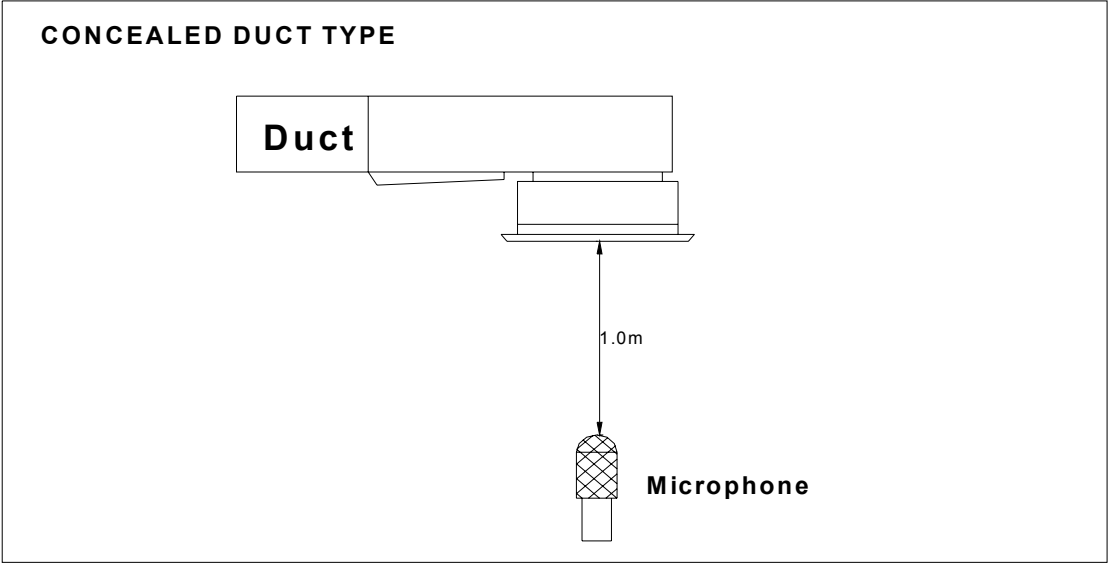
Indoor temp: 27°CDB, 19°CWB; Outdoor temp: 35°CDB;

2. Nominal heating capacities are based on the following conditions:

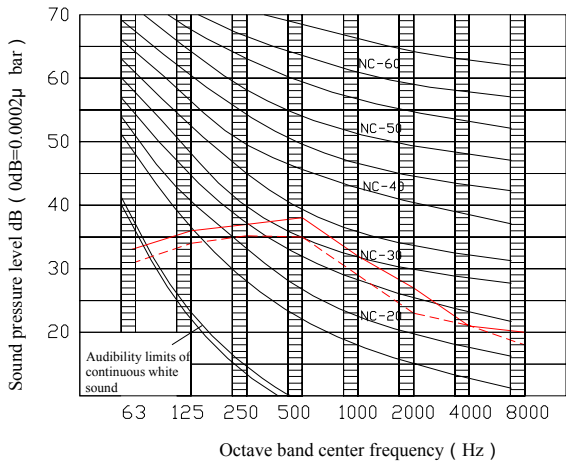
Indoor temp: 20°CDB; Outdoor temp: 7°CDB, 6°CWB;

3. Actual noise level may differ, depending on the room structure, etc, since these noise values are from an anechoic room.

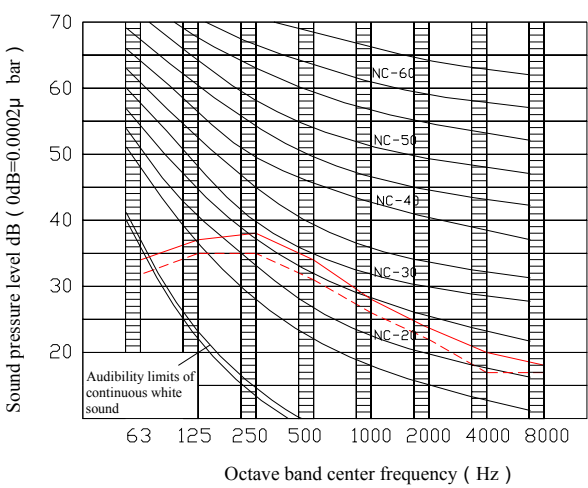
Part 3 Noise Level



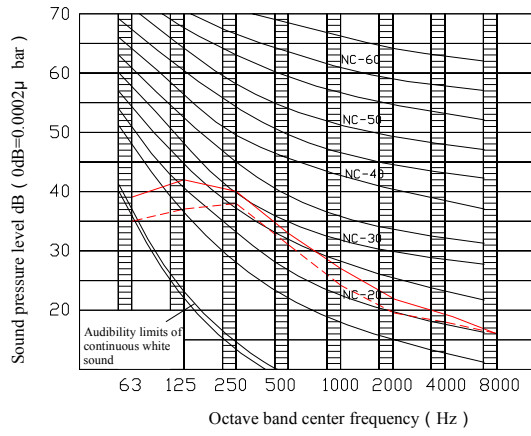
1. DITA-18HRN2



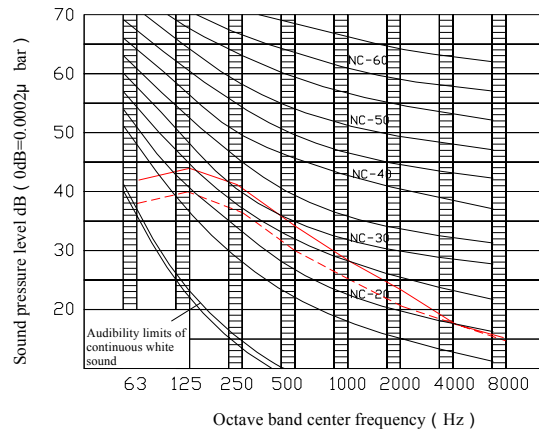
2. DITA-24HRN2 DITA-30HRN2



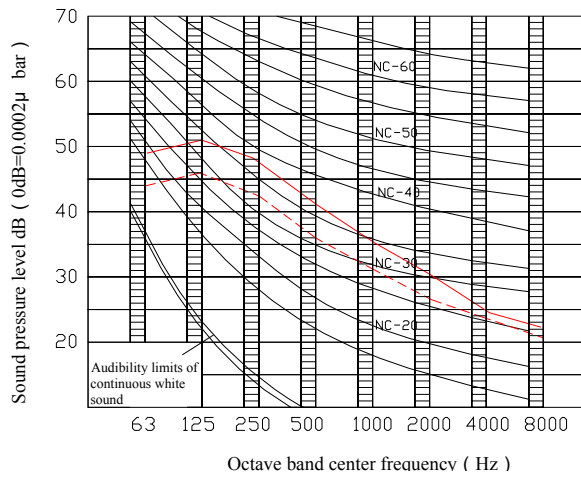
3. DITA(T)-36HRN2



4. DITA-48HRN2

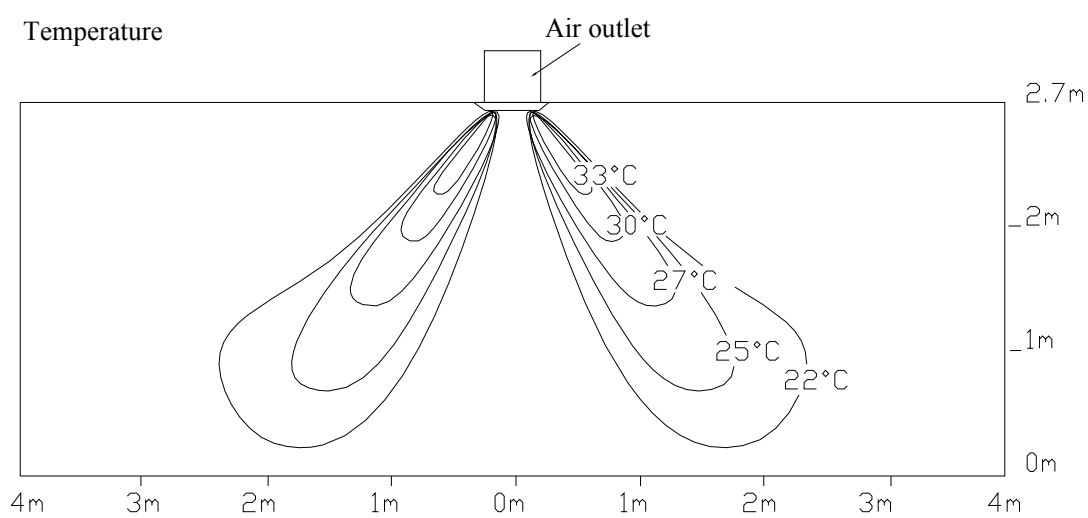
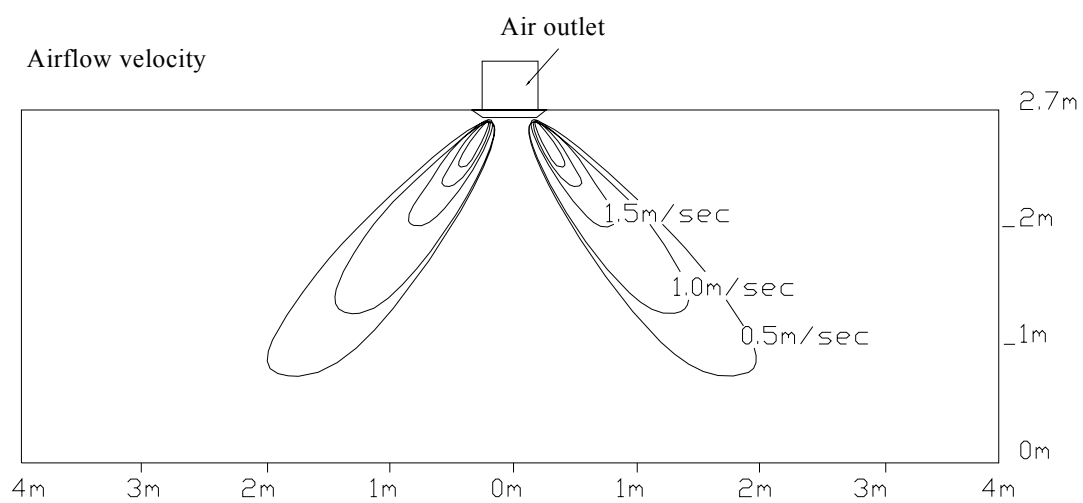


5. DITA-60HRN2



Part 4 Velocity & temperature distribution

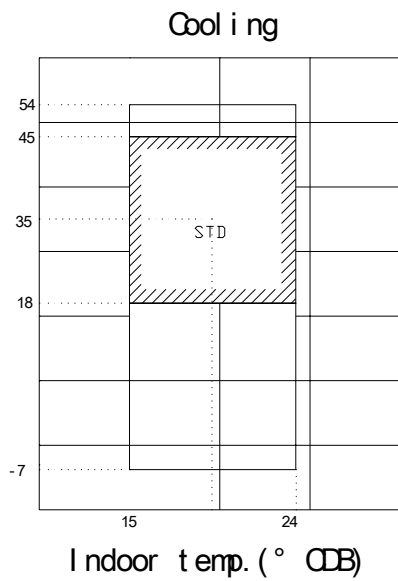
Discharge angle 60°



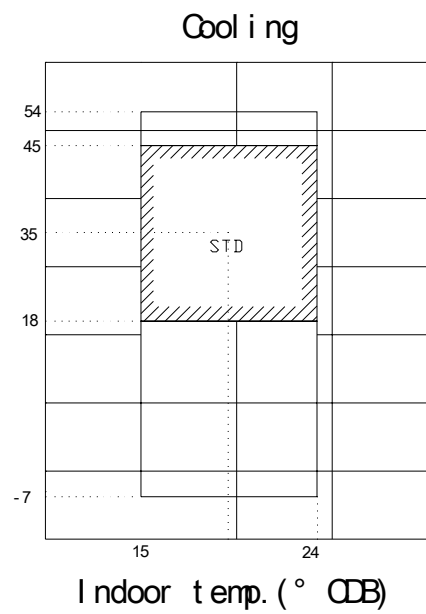
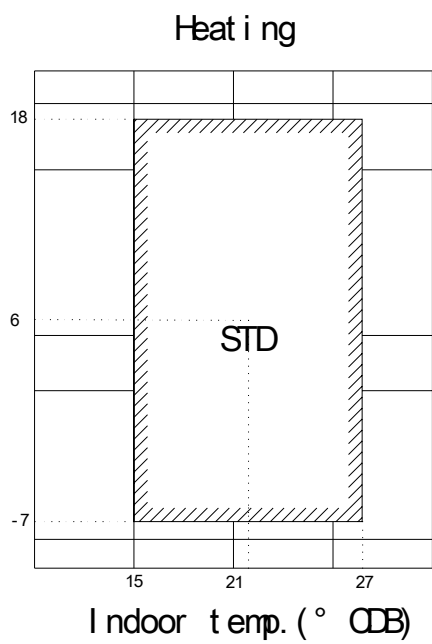
Part 5 Operation Range

Ensure the operating temperature is in allowable range.

Cooling only



Heat pump



Part 6 Capacity Table

Model:DITA-18HRN2

COOLING		OUTDOOR TEMPERATURE DRY						
Indoor Conditions		21°C	25°C	30°C	35°C	40°C	45°C	50°C
21°C D 15°C W	Total capacity kW	5.10	4.88	4.70	4.44	4.26	4.12	3.99
	Sensitive capacity kW	4.08	3.90	3.76	3.55	3.41	3.30	3.19
	Input kW.	1.39	1.58	1.78	1.98	2.18	2.38	2.57
24°C D 17°C W	Total capacity kW	5.59	5.34	5.15	4.86	4.66	4.52	4.37
	Sensitive capacity kW	4.47	4.27	4.12	3.89	3.73	3.61	3.50
	Input kW.	1.46	1.67	1.88	2.09	2.30	2.51	2.72
27°C D 19°C W	Total capacity kW	6.07	5.81	5.60	5.28	5.07	4.91	4.75
	Sensitive capacity kW	4.86	4.65	4.48	4.22	4.06	3.93	3.80
	Input kW.	1.54	1.76	1.98	2.20	2.42	2.64	2.86
32°C D 23°C W	Total capacity kW	6.98	6.68	6.44	6.07	5.83	5.65	5.46
	Sensitive capacity kW	5.59	5.34	5.15	4.86	4.66	4.52	4.37
	Input kW.	1.77	2.02	2.28	2.53	2.78	3.04	3.29

Model:DITA-18HRN2

HEATING		OUTDOOR CONDITIONS							
Indoor Conditions		24°C D 18°C W	12°C D 11°C W	7°C D 6°C W	4°C D 3°C W	0°C D -1°C W	-5°C D -6°C W	-7°C D -8°C W	-15°C D -16°C W
15°C	Capacity kW	7.38	5.90	4.92	4.43	4.18	3.74	3.44	3.20
	Input kW.	2.40	1.92	1.60	1.52	1.44	1.36	1.28	1.12
18°C	Capacity kW	8.30	6.64	5.54	4.98	4.70	4.15	3.87	3.60
	Input kW.	2.70	2.16	1.80	1.71	1.62	1.53	1.44	1.26
20°C	Capacity kW	9.23	7.38	6.15	5.54	5.23	4.61	4.31	4.00
	Input kW.	3.00	2.40	2.00	1.90	1.80	1.70	1.60	1.40
22°C	Capacity kW	10.15	8.12	6.77	6.09	5.75	5.07	4.74	4.40
	Input kW.	3.30	2.64	2.20	2.09	1.98	1.87	1.76	1.54
27°C	Capacity kW	11.99	9.59	8.00	7.20	6.80	6.00	5.60	5.20
	Input kW.	3.90	3.12	2.60	2.47	2.34	2.21	2.08	1.82

Model:DITA-24HRN2

COOLING		OUTDOOR TEMPERATURE DRY						
Indoor Conditions		21°C	25°C	30°C	35°C	40°C	45°C	50°C
21°C D 15°C W	Total capacity kW	5.43	5.20	5.01	4.72	4.54	4.39	4.25
	Sensitive capacity kW	1.98	2.27	2.55	2.84	3.12	3.40	3.69
	Input kW.	7.44	7.11	6.86	6.47	6.21	6.01	5.82
24°C D 17°C W	Total capacity kW	5.95	5.69	5.48	5.17	4.97	4.81	4.66
	Sensitive capacity kW	2.09	2.39	2.69	2.99	3.29	3.59	3.89
	Input kW.	8.08	7.73	7.45	7.03	6.75	6.54	6.33
27°C D 19°C W	Total capacity kW	6.47	6.19	5.96	5.62	5.40	5.23	5.06
	Sensitive capacity kW	2.21	2.52	2.84	2.93	3.47	3.78	4.10
	Input kW.	9.30	8.89	8.57	8.08	7.76	7.52	7.28
32°C D 23°C W	Total capacity kW	7.44	7.11	6.86	6.47	6.21	6.01	5.82
	Sensitive capacity kW	2.54	2.90	3.26	3.62	3.98	4.35	4.71
	Input kW.	6.79	6.50	6.26	5.91	5.67	5.49	5.31

Model: DITA-24HRN2

HEATING		OUTDOOR CONDITIONS							
Indoor Conditions		24°C D 18°C W	12°C D 11°C W	7°C D 6°C W	4°C D 3°C W	0°C D -1°C W	-5°C D -6°C W	-7°C D -8°C W	-15°C D -16°C W
15°C	Capacity kW	9.71	7.77	6.47	5.82	5.50	4.91	4.53	4.21
	Input kW.	3.66	2.93	2.44	2.32	2.20	2.07	1.95	1.71
18°C	Capacity kW	10.92	8.74	7.28	6.55	6.19	5.46	5.10	4.73
	Input kW.	4.12	3.29	2.75	2.61	2.47	2.33	2.20	1.92
20°C	Capacity kW	12.14	9.71	8.09	7.28	6.88	6.07	5.66	5.26
	Input kW.	4.58	3.66	3.05	2.90	2.75	2.59	2.44	2.14
22°C	Capacity kW	13.35	10.68	8.90	8.01	7.56	6.67	6.23	5.78
	Input kW.	5.03	4.03	3.36	3.19	3.02	2.85	2.68	2.35
27°C	Capacity kW	15.78	12.62	10.52	9.47	8.94	7.89	7.36	6.84
	Input kW.	5.95	4.76	3.97	3.77	3.57	3.37	3.17	2.78

Model:DITA-30HRN2

COOLING		OUTDOOR TEMPERATURE DRY						
Indoor Conditions		21°C	25°C	30°C	35°C	40°C	45°C	50°C
21°C D 15°C W	Total capacity kW	8.49	8.12	7.83	7.38	7.09	6.87	6.65
	Sensitive capacity kW	6.79	6.50	6.26	5.91	5.67	5.49	5.32
	Input kW.	2.55	2.92	3.28	3.65	4.01	4.37	4.74
24°C D 17°C W	Total capacity kW	9.30	8.90	8.57	8.09	7.76	7.52	7.28
	Sensitive capacity kW	7.44	7.12	6.86	6.47	6.21	6.02	5.82
	Input kW.	2.69	3.08	3.46	3.85	4.23	4.62	5.00
27°C D 19°C W	Total capacity kW	10.11	9.67	9.32	8.79	8.44	8.17	7.91
	Sensitive capacity kW	8.09	7.74	7.45	7.03	6.75	6.54	6.33
	Input kW.	2.84	3.24	3.65	4.05	4.46	4.86	5.27
32°C D 23°C W	Total capacity kW	11.62	11.12	10.72	10.11	9.70	9.40	9.10
	Sensitive capacity kW	9.30	8.90	8.57	8.09	7.76	7.52	7.28
	Input kW.	3.26	3.73	4.19	4.66	5.12	5.59	6.05

Model: DITA-30HRN2

HEATING		OUTDOOR CONDITIONS							
Indoor Conditions		24°C D 18°C W	12°C D 11°C W	7°C D 6°C W	4°C D 3°C W	0°C D -1°C W	-5°C D -6°C W	-7°C D -8°C W	-15°C D -16°C W
15°C	Capacity kW	12.66	10.13	8.44	7.60	7.17	6.41	5.91	5.49
	Input kW.	4.74	3.79	3.16	3.00	2.84	2.69	2.53	2.21
18°C	Capacity kW	14.24	11.39	9.50	8.55	8.07	7.12	6.65	6.17
	Input kW.	5.33	4.27	3.56	3.38	3.20	3.02	2.84	2.49
20°C	Capacity kW	15.83	12.66	10.55	9.50	8.97	7.91	7.39	6.86
	Input kW.	5.93	4.74	3.95	3.75	3.56	3.36	3.16	2.77
22°C	Capacity kW	17.41	13.93	11.61	10.44	9.86	8.70	8.12	7.54
	Input kW.	6.52	5.21	4.35	4.13	3.91	3.69	3.48	3.04
27°C	Capacity kW	20.57	16.46	13.72	12.34	11.66	10.29	9.60	8.91
	Input kW.	7.70	6.16	5.14	4.88	4.62	4.36	4.11	3.59

Model: DITA-36HRN2

COOLING		OUTDOOR TEMPERATURE DRY						
Indoor Conditions		21°C	25°C	30°C	35°C	40°C	45°C	50°C
21°C D 15°C W	Total capacity kW	10.19	9.75	9.39	8.86	8.51	8.24	7.98
	Sensitive capacity kW	8.15	7.80	7.51	7.09	6.81	6.59	6.38
	Input kW.	2.71	3.10	3.48	3.87	4.26	4.64	5.03
24°C D 17°C W	Total capacity kW	11.16	10.68	10.29	9.71	9.32	9.03	8.74
	Sensitive capacity kW	8.93	8.54	8.23	7.76	7.45	7.22	6.99
	Input kW.	2.86	3.27	3.68	4.09	4.49	4.90	5.31
27°C D 19°C W	Total capacity kW	12.13	11.61	11.18	10.55	10.13	9.81	9.50
	Sensitive capacity kW	9.71	9.28	8.95	8.44	8.10	7.85	7.60
	Input kW.	3.01	3.44	3.87	4.30	4.73	5.16	5.59
32°C D 23°C W	Total capacity kW	13.95	13.35	12.86	12.13	11.65	11.28	10.92
	Sensitive capacity kW	11.16	10.68	10.29	9.71	9.32	9.03	8.74
	Input kW.	3.46	3.96	4.45	4.95	5.44	5.93	6.43

Model: DITA-36HRN2

HEATING		OUTDOOR CONDITIONS							
Indoor Conditions		24°C D 18°C W	12°C D 11°C W	7°C D 6°C W	4°C D 3°C W	0°C D -1°C W	-5°C D -6°C W	-7°C D -8°C W	-15°C D -16°C W
15°C	Capacity kW	14.06	11.25	9.38	8.44	7.97	7.12	6.56	6.09
	Input kW.	5.52	4.42	3.68	3.50	3.31	3.13	2.94	2.58
18°C	Capacity kW	15.82	12.66	10.55	9.49	8.97	7.91	7.38	6.86
	Input kW.	6.21	4.97	4.14	3.93	3.73	3.52	3.31	2.90
20°C	Capacity kW	17.58	14.06	11.72	10.55	9.96	8.79	8.20	7.62
	Input kW.	6.90	5.52	4.60	4.37	4.14	3.91	3.68	3.22
22°C	Capacity kW	19.34	15.47	12.89	11.60	10.96	9.67	9.02	8.38
	Input kW.	7.59	6.07	5.06	4.81	4.55	4.30	4.05	3.54
27°C	Capacity kW	22.85	18.28	15.24	13.71	12.95	11.43	10.67	9.90
	Input kW.	8.97	7.18	5.98	5.68	5.38	5.08	4.78	4.19

Model: DITA-48HRN2

COOLING		OUTDOOR TEMPERATURE DRY						
Indoor Conditions		21°C	25°C	30°C	35°C	40°C	45°C	50°C
21°C D 15°C W	Total capacity kW	13.59	13.00	12.53	11.82	11.35	10.99	10.64
	Sensitive capacity kW	10.87	10.40	10.02	9.46	9.08	8.79	8.51
	Input kW.	3.40	3.89	4.37	4.86	5.35	5.83	6.32
24°C D 17°C W	Total capacity kW	14.89	14.24	13.72	12.94	12.43	12.04	11.65
	Sensitive capacity kW	11.91	11.39	10.98	10.36	9.94	9.63	9.32
	Input kW.	3.59	4.10	4.62	5.13	5.64	6.16	6.67
27°C D 19°C W	Total capacity kW	16.18	15.48	14.91	14.07	13.51	13.09	12.66
	Sensitive capacity kW	12.94	12.38	11.93	11.26	10.81	10.47	10.13
	Input kW.	3.78	4.32	4.86	5.40	5.94	6.48	7.02
32°C D 23°C W	Total capacity kW	18.61	17.80	17.15	16.18	15.53	15.05	14.56
	Sensitive capacity kW	14.89	14.24	13.72	12.94	12.43	12.04	11.65
	Input kW.	4.35	4.97	5.59	6.21	6.83	7.45	8.07

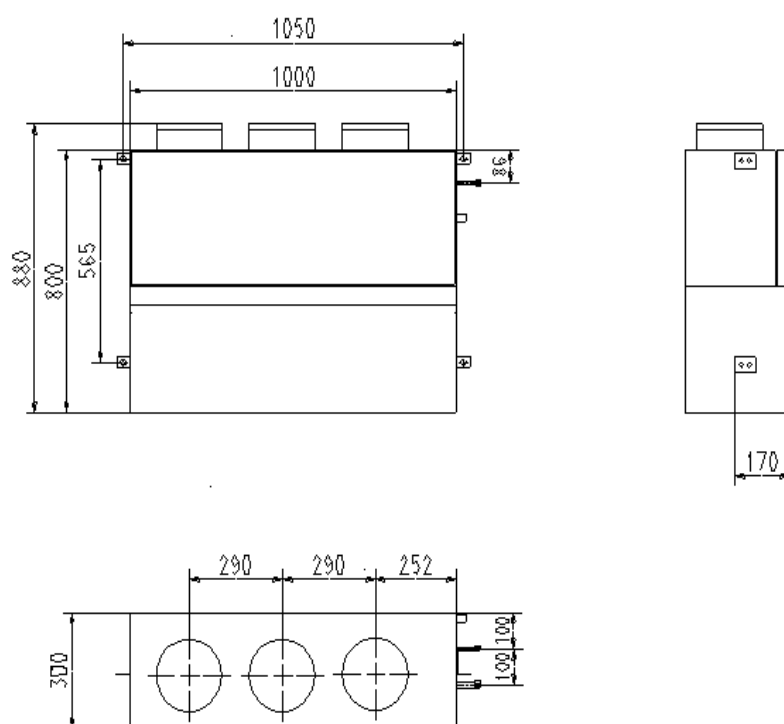
Model: DITA-48HRN2

HEATING		OUTDOOR CONDITIONS							
Indoor Conditions		24°C D 18°C W	12°C D 11°C W	7°C D 6°C W	4°C D 3°C W	0°C D -1°C W	-5°C D -6°C W	-7°C D -8°C W	-15°C D -16°C W
15°C	Capacity kW	18.64	14.91	12.42	11.18	10.56	9.43	8.70	8.08
	Input kW.	6.84	5.47	4.56	4.33	4.10	3.88	3.65	3.19
18°C	Capacity kW	20.97	16.77	13.98	12.58	11.88	10.48	9.78	9.09
	Input kW.	7.70	6.16	5.13	4.87	4.62	4.36	4.10	3.59
20°C	Capacity kW	23.30	18.64	15.53	13.98	13.20	11.65	10.87	10.09
	Input kW.	8.55	6.84	5.70	5.42	5.13	4.85	4.56	3.99
22°C	Capacity kW	25.62	20.50	17.08	15.37	14.52	12.81	11.96	11.10
	Input kW.	9.41	7.52	6.27	5.96	5.64	5.33	5.02	4.39
27°C	Capacity kW	30.28	24.23	20.19	18.17	17.16	15.14	14.13	13.12
	Input kW.	11.12	8.89	7.41	7.04	6.67	6.30	5.93	5.19

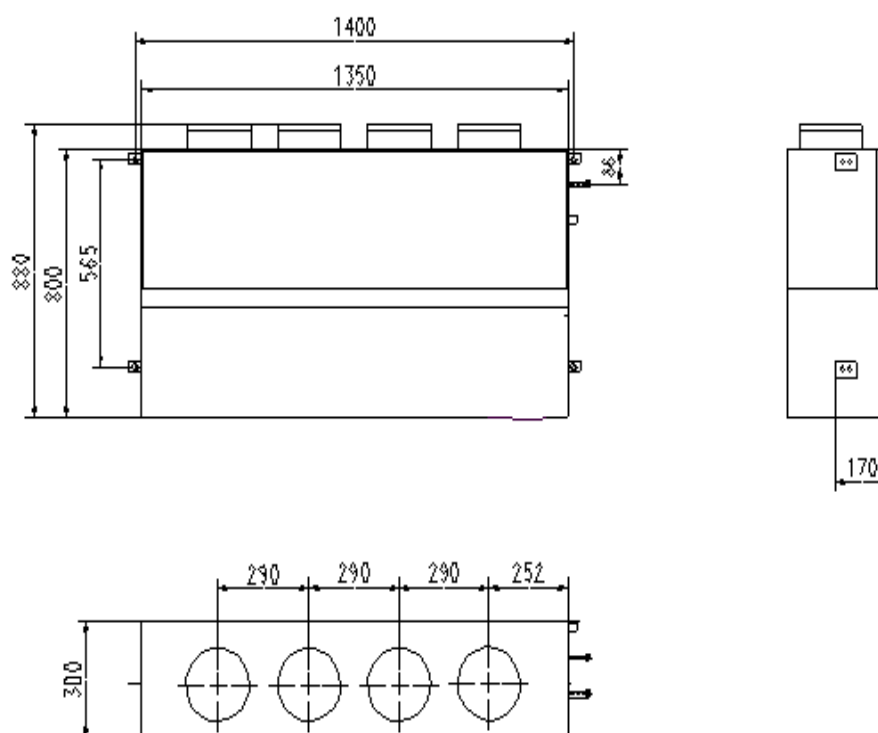
Part 7 Outlines and Dimension

Indoor unit

1. DITA-18HRN2 DITA-24HRN2

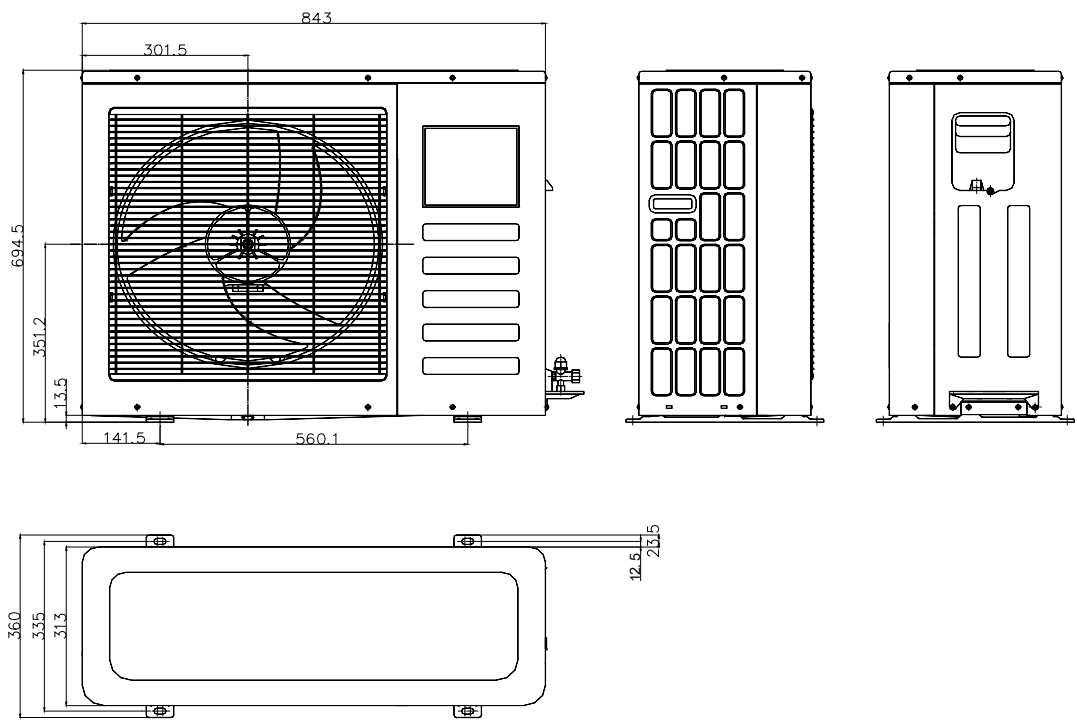


2. DITA-30HRN2 DITA(T)-36HRN2 DITA-48HRN2

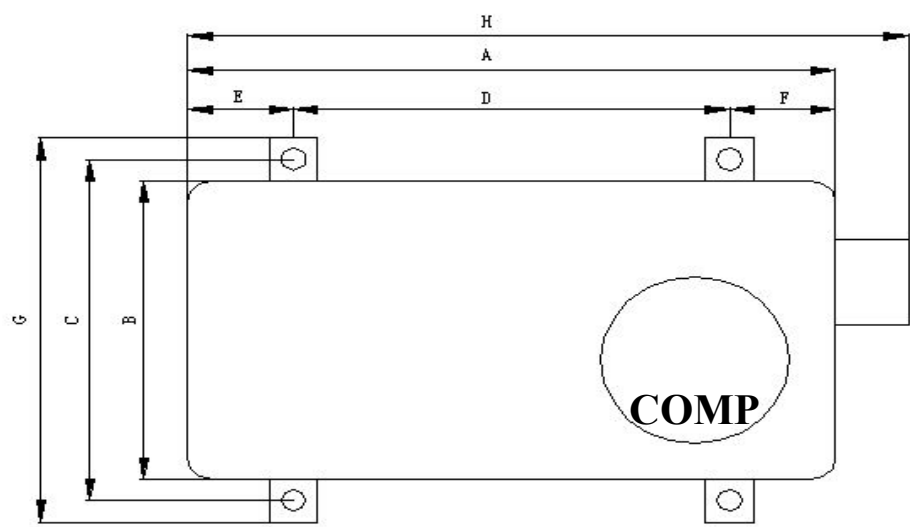


Outdoor unit

1. DOU-18HRN2

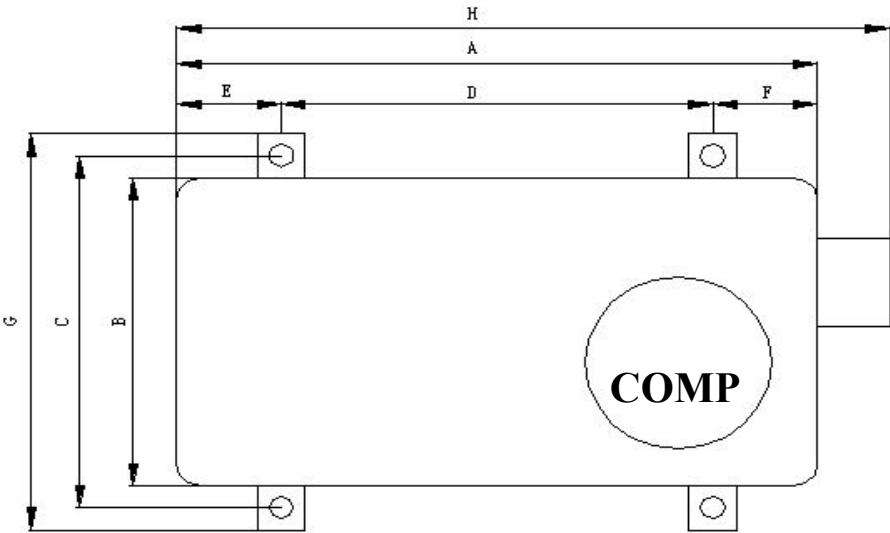


2. DOU-24HRN2



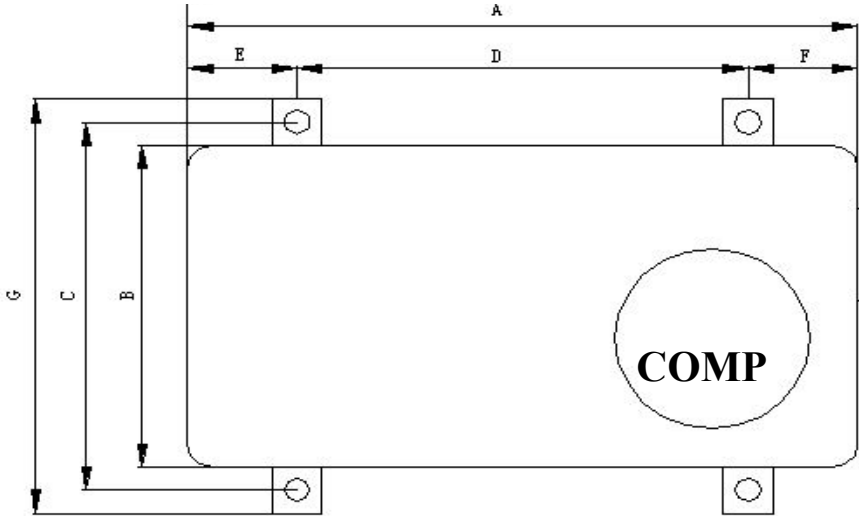
A (BODY DIMENSION)	B (BODY DIMENSION)	C (INSTALL BOLTS)	D (INSTALL BOLTS)	E (INSTALL BOLTS)	F (INSTALL BOLTS)	G (BASE FOOT)	H (WATER RECEIVER)
895	300	330	590	163	141	355	1013

3. DOU(T)-36HRN2 DOU-30HRN2



A (BODY DIMENSION)	B (BODY DIMENSION)	C (INSTALL BOLTS)	D (INSTALL BOLTS)	E (INSTALL BOLTS)	F (INSTALL BOLTS)	G (BASE FOOT)	H (WATER RECEIVER)
990	336.4	360	624.0	181.4	181.0	396.4	1071.4

4. DOU-60HRN2 DOU-48HRN2



A (BODY DIMENSION)	B (BODY DIMENSION)	C (INSTALL BOLTS)	D (INSTALL BOLTS)	E (INSTALL BOLTS)	F (INSTALL BOLTS)	G (BASE FOOT)
950.0	390.0	420.0	650.0	150.0	150.0	440.0

Part 8. Electric Control Functions

1. Performance Index

No.	Item	Index
1	Applicable Voltage Range	165-253V~, 343-418V~
2	A/C Frequency	50Hz
3	Working environment temperature	-7°C- +45°C

2. Main Parts Introduction

2.1 Indoor Fan

High speed and low speed.

Breeze speed for anti-cold air.

2.2 Outdoor Fan

High speed and low speed.

2.3 Buzzer

2.3.1 It will buzz when its driving port in the main chip outputs high level.

2.3.2 It will buzz once when the main frame receives remote start-up signal.

2.3.3 It will buzz once for 1 second when receiving turn-off signal.

2.3.4 It will buzz for 0.5 second once receiving other signal.

2.3.5 It will not buzz when receiving abnormal signal.

2.4 Indicator

2.4.1 There are 4 indicators: operating indicator, timer indicator, water level warning indicator, defrosting indicator and pre-heating indicator (wind-delivery indicator for cooling-only A/C).

2.4.2 LED indicates errors when protection is in effective.

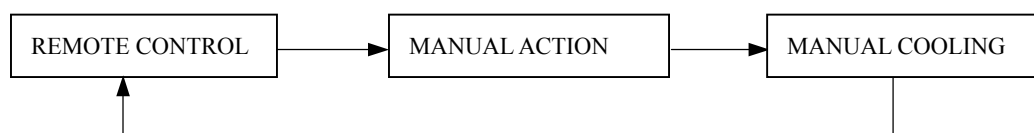
2.5 Four-way Valve

It is controlled by relays.

3. Operation Modes and Functions

3.1 Manual Operation

3.1.1 The manual operation mode is controlled through “manual” pad in the wind in-take grid, including such two modes as manual action and manual cooling. Push the manual pad for each switchover, the order for which is shown below:



3.1.2 Manual Cooling

3.1.2.1 Under this mode, no remote control signal will be received.

3.1.2.2 The compressor is started up unconditionally and the rotating speed of indoor and outdoor fans is set to be in high and forced cooling operation. At the same time, the wind grille is forced to swing (irrelevant to temperature setting and environment temperature) and will be automatically switched over to manual mode 30 minutes later, under which manual mode will be in effective.

3.1.2.3 Under this mode, the buzzer will buzz twice with each lasting 0.5 second at 0.5 interval. During the first

30 minutes of unconditional forced cooling operation, the operation indicator will blink at 0.5Hz. In the process of switchover to manual action mode, the buzzer buzzes for 0.5 second and the indicator is illuminated.

- 3.1.2.4 Under this mode, the corresponding protections are in effective (3- minute delayed start-up, over current, outdoor protection and evaporator low temperature protection.). Corresponding protection will act once any protection is in active.

Push “manual” pad once to end this mode and enter the remote control pending status. The buzzer will buzz for 1 second and the indicator turn off.

3.1.3 Manual Action

- 3.1.3.1 Under this mode, the remote signal will be received and corresponding actions will be taken accordingly upon the receipt of the remote signal.

- 3.1.3.2 On entering this mode, the buzzer will buzz for 0.5 second and the indicator on.

- 3.1.3.3 The system will operate under the auto mode whose temperature is set to be 24°C and at the same time, the wind grille will swing automatically.

- 3.1.3.4 Under this mode, corresponding protections are in effective.

- 3.1.3.5 Push “ manual” pad to end this mode and switch over to manual cooling mode.

3.2 Heating Mode

- 3.2.1 Four-way valve opens at once, while defrosting process closes.

- 3.2.2 Condition for the compressor action: (T_s = set temperature, T_a = room temperature)

	Condition	Compressor	Outdoor fan
Room temp. up	$T_a > T_s + 4$	Off	Off
	$T_a < T_s + 4$	On	On
Room temp. down	$T_a < T_s + 3$	On	On
	$T_a > T_s + 3$	Off	Off

3.2.3 Indoor Fan Action

- 3.2.3.1 Anytime remote switchover for fan speed among high/low/auto(anti-cold air function takes priority).

- 3.2.3.2 Anti-cold air:

Switchover between fan speed and fine tune can be set according to temperature of evaporator pipe.

	Condition T = Indoor exchanger temp.	Indoor fan speed
Indoor exchanger temp. up	$T < 25^\circ\text{C}$	Off
	$25^\circ\text{C} < T < 32^\circ\text{C}$	Breeze
	$T > 32^\circ\text{C}$	Setting fan speed
Indoor exchanger temp. down	$T > 30^\circ\text{C}$	Setting fan speed
	$15^\circ\text{C} < T < 30^\circ\text{C}$	Breeze
	$T < 15^\circ\text{C}$	Off

During anti-cold air period, if indoor fan is shut down, then pre-heating/defrosting lamp is on. Once indoor fan starts, pre-heating/defrosting lamp will be off.

- 3.2.3.3 Auto fan of indoor fan under heating mode.

	Condition (T = Indoor Temp.-Setting Temp.)	Indoor fan speed
Room temp. up	$T < 3^\circ\text{C}$	High
	$T > 3^\circ\text{C}$	Low
Room temp. down	$T > 1^\circ\text{C}$	Low
	$T < 1^\circ\text{C}$	High

3.3. Defrost (only available to heating mode)

3.3.1 The defrosting of 2~3.5HP and 4HP(1N) is processed by indoor control board.

3.3.1.1 Defrosting Conditions

3.3.1.1.1 Low temperature defrosting condition:

Accumulated operating time when temperature of outdoor heat exchanger coil T3 is below -2°C reaches up to over 40 minutes.

3.3.1.1.2 High temperature defrosting condition:

Under high temperature protection of evaporator, the time when outdoor fan is shut down but compressor is not has been accumulated for up to 90 minutes. It is considered that defrosting is performed when either 3.3.1.1 or 3.3.1.2 is met.

3.3.1.2 Defrosting Action

Four-way valve and outdoor fan are shut down. Indoor fan operates according to anti-cold air function. Compressor keeps on continuously.

3.3.1.3 Ending Of Defrosting Condition

It is considered that defrosting condition is ended when any of the conditions is met:

3.3.1.3.1 Operating current of compressor reaches 1.5I_e.

3.3.1.3.2 Time of defrosting reaches 10 minutes.

3.3.1.3.3 Temperature of outdoor coil T3 is up to 20°C .

3.3.1.4 Ending Action of Defrost

3.3.1.4.1 Outdoor fan and four-way valve are open.

3.3.1.4.2 Compressor keeps on continuously.

3.3.1.4.3 Indoor fan acts according to anti-cold air function.

3.3.1.4.4 Defrosting/pre-heating lamp continues to be on until indoor fan starts up.

3.3.2 The defrosting of 4~7HP(3N) is processed by outdoor control board.

3.3.2.1 Defrosting Conditions(any of the following conditions is meet)

3.3.2.1.1 Under indoor pipe high temperature protection in heating mode, accumulated operating time is up to 90 minutes.(if outdoor fan is off and compressor are cut down, time again.)

3.3.2.1.2 When $T_4 \geq -8^{\circ}\text{C}$, 1min, process the normal defrost mode: compressor operates continue 40 minute, the accumulated time up to 40 minutes when pipe temperature sensor $T_3 \leq -2^{\circ}\text{C}$ (if compressor is off, time again); when defrosting ends, check T4 again.

3.3.2.2 Defrosting Action

When defrosting, the outdoor four-way valve is power off, defrosting valve is power on, outdoor fan is off, compressor operate continue, indoor fan operates according to anti-cold air condition in heating mode. If indoor fan is to be off, cut down the electric auxiliary heater and after 15 seconds cut down indoor fan.

3.3.2.3 Ending Action of Defrost(any of the following conditions is met)

3.3.2.3.1 Time of defrosting reaches 10 minutes.

3.3.2.3.2 Temperature of outdoor coil T3 is up to 20°C

3.3.2.4 Ending Action of Defrost

Operate in normal heating mode. After defrost stops, indoor fan starts to operate according to anti-cold air condition.

3.4 Cooling Mode

3.4.1 Four-way valve is closed. If four-way valve is open before the machine enters cooling mode, then four-way valve will be closed at the first time the compressor starts under the cooling mode.

Conditions for the compressor and outdoor fan action (T_s = set temperature, T_a = room temperature)

	Condition	Compressor	Outdoor fan
Room Temp. up	$T_a > T_s + 1$	On	On
	$T_a < T_s + 1$	Off	Off
Room Temp. down	$T_a > T_s$	On	On
	$T_a < T_s$	Off	Off

3.4.3 Action of Indoor Fan

3.4.3.1 HIGH/LOW/AUTO fan can be switched over for your comfort.

3.4.3.2 Auto fan under cooling mode.

	Condition (T=Indoor Temp.-Setting Temp.)	Indoor fan speed
Temp. up	$T < 4^{\circ}\text{C}$	Low
	$T > 4^{\circ}\text{C}$	High
Temp. down	$T > 1^{\circ}\text{C}$	High
	$T < 1^{\circ}\text{C}$	Low

3.5 Dehumidifying Mode

3.5.1 Dehumidifying mode is the cooling operation, under which the indoor fan is high and outdoor fan is low.

3.5.2 Protective condition is activated.

3.6 Auto Mode

3.6.1 Under auto mode, the indoor fan is set to be auto (refer to auto fan under cooling, heating).

3.6.2 When entering auto mode, the heating, fan only or cooling operation will be automatically chosen according to the room temperature T_a and the set temperature T_s .

3.6.2.1 When $T_a < T_s - 1^{\circ}\text{C}$, it performs the heating operation with a set temperature of $T_s - 1^{\circ}\text{C}$ (refer to the heating mode). However the cool only model will be in low fan.

3.6.2.2 When $T_s + 2^{\circ}\text{C} \geq T_a \geq T_s - 1^{\circ}\text{C}$, control according to cooling auto fan with a set temperature of 23°C .

3.6.2.3 When $T_a > T_s + 2^{\circ}\text{C}$, it performs the cooling operation with a set temperature of T_s (refer to the cooling mode).

3.6.3 After one mode is chosen, if the condition $T_a > T_s + 1^{\circ}\text{C}$ or $T_a < T_s - 1^{\circ}\text{C}$ lasts for 15 minutes, meanwhile the compressor doesn't start up within consecutive 15 minutes, the operation mode will be re-chosen according to the T_a and T_s .

3.6.4 Protective condition is activated.

3.7 Fan Only Mode

3.7.1 Under this mode, four-way valve, compressor and outdoor fan are shut down.

3.7.2 High/Low/Auto fan can be switched over through manual control. Auto fan will be controlled in line with cooling auto fan with temperature set to be 23°C .

3.7.3 After entering fan mode, the operating indicator is on. If the model is cooling only mode, fan indicator is on at the same time.

4. Other Functions

4.1 LED Display

Operation lamp, timer lamp, defrosting/pre-heating lamp, and water level alarm lamp.

4.1.1 Operation Lamp

When the operation is recovering, it will blink at 1 Hz.

After the air-conditioner is on, the lamp will keep on.

After the air-conditioner is off, the lamp will be off.

When the air-conditioner is switched over from manual cooling to remote control, the lamp will be off.

4.1.2 Timer Lamp

During timer operation, it will be on.

4.1.3 Defrosting/Pre-Heating Lamp

When heat pump model performs defrosting or anti-cold air, it will be on.

4.2 Timer

Refer to remote controller manual for detail operation.

Note: The timer is valid for one operation of the A/C.

Louver Action

It is controlled by relays.

5. Trouble Shooting

5.1 Protective Function

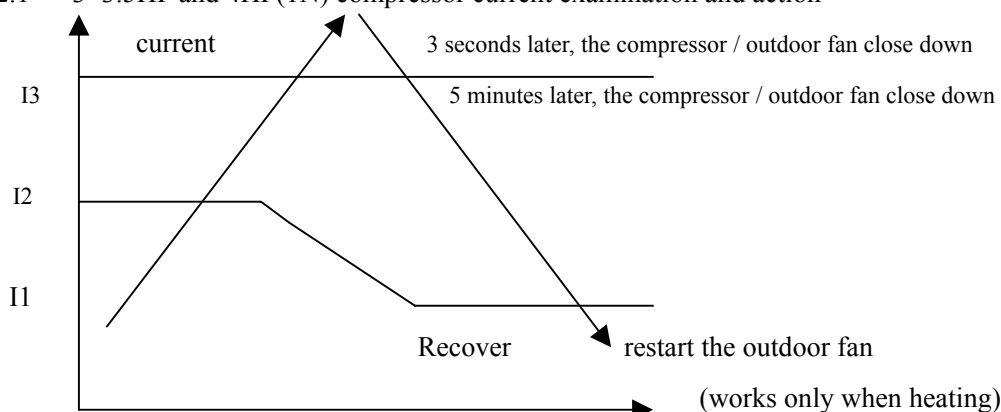
5.1.1 3-minute delay for the compressor start-up.

At the beginning of energizing or after the stop of the compressor, 3-minute delay will be needed to start the compressor.

When switchover between cooling/heating mode, the compressor stops automatically.

5.1.2 Compressor current overload protection

5.1.2.1 3~3.5HP and 4HP(1N) compressor current examination and action



Remark :Ie: rating current; I₁:1.3 time Ie; I₂:1.5 time Ie; I₃:2.0 time Ie.

- The compressor and outdoor fan closed for protection purpose will restart after 3 minutes.
- During the protection, the indoor fan continues working in a set speed, while the anti-cold air function when heating and the compressor will be 3 minutes delayed to shut down for protection.
- When there are 4 times compressor protection within one hour, the A/C will be shut down, meanwhile the operation light and timer light will be turned on, the defrosting light flashes in a frequency of 0.5Hz. This situation will be recovered only when power is switched off.

5.1.2.2 If AC don't check the compressor current through electric system, then use compressor self current protection.

5.1.2.2 4~5HP(3N) compressor current is checked by outdoor main board. The protection principle is as following:

In any case, after the compressor starts, if

- a. Only in heating mode, when current is higher than 1.5I_e, then outdoor fan will shut off. When compressor current is less than 1.3I_e, then restart outdoor fan and recover operation.
- b. when current is higher than 1.5I_e and time is up to 20seconds, compressor and outdoor fan will shut down. At the same time, cut down outdoor protection communication wiring, protection malfunction will be indicated by indoor unit and 3minutes later restart compressor.

5.1.3 Evaporator protection against high temperature(heating mode)

Only available to heating mode, including heating mode, heating operation under auto mode.

- ※ Note: During protection, the indoor fan continues operating at a setting speed, while the anti-cold air function of heating and the compressor will be 3 minute delayed to shut down for protection.

5.1.4 Evaporator Protection against low temperature(cooling mode)

5.1.4.1 When the evaporator pipe temperature $\leq 3^{\circ}\text{C}$ and this lasts for 3 minutes, the compressor and outdoor fan will be shut off.

5.1.4.2 When the evaporator pipe temperature $\geq 7^{\circ}\text{C}$, it recovers.

5.1.4.3 The restart of the compressor shall execute the delay protection.

5.1.5 Anti-cold air protection

Only available to heating mode, including heating mode, heating operation under auto mode.

5.1.6 Condenser high temperature protection

5.1.6.1 Only available to cooling (incl. cooling mode, cooling operation under auto mode) and dehumidifying mode.

5.1.6.2 Delay protection should be performed when the compressor restarts.

5.1.7 Outdoor protection

Only 3HP has outdoor protection function.

5.2 Self-diagnosis

5.2.1 Indoor unit

No.	Type	Contents	LED Flashing	Remark
1	protection	Over current protection of the compressor occurs 4 times in 1h	Lamps of operation, timer, defrosting (only fan) flashing simultaneously at 5Hz.	Whole unit is shut down. It cannot recover unless power is cut off
2	protection	Outdoor protection (absent phase, phase sequence and temperature protection)	All lamps flashing at 5Hz	Recover automatically after errors are eliminated(For T3 malfunction of 5HP, can't recover automatically)
3	error	Room temperature sensor checking channel is abnormal	Timer lamp flashing at 5Hz	
4	error	Evaporator sensor checking channel is abnormal	Operation lamp flashing at 5Hz	
5	error	Condenser sensor checking channel is abnormal	Defrosting lamp flashing at 5Hz	
6	error	Temperature fuse is melt(reserved)	Operation lamp and timer lamp flashing at 5Hz	

5.2.2 LEDs for the indication of outdoor trouble(3 phase type,3~3.5HP)

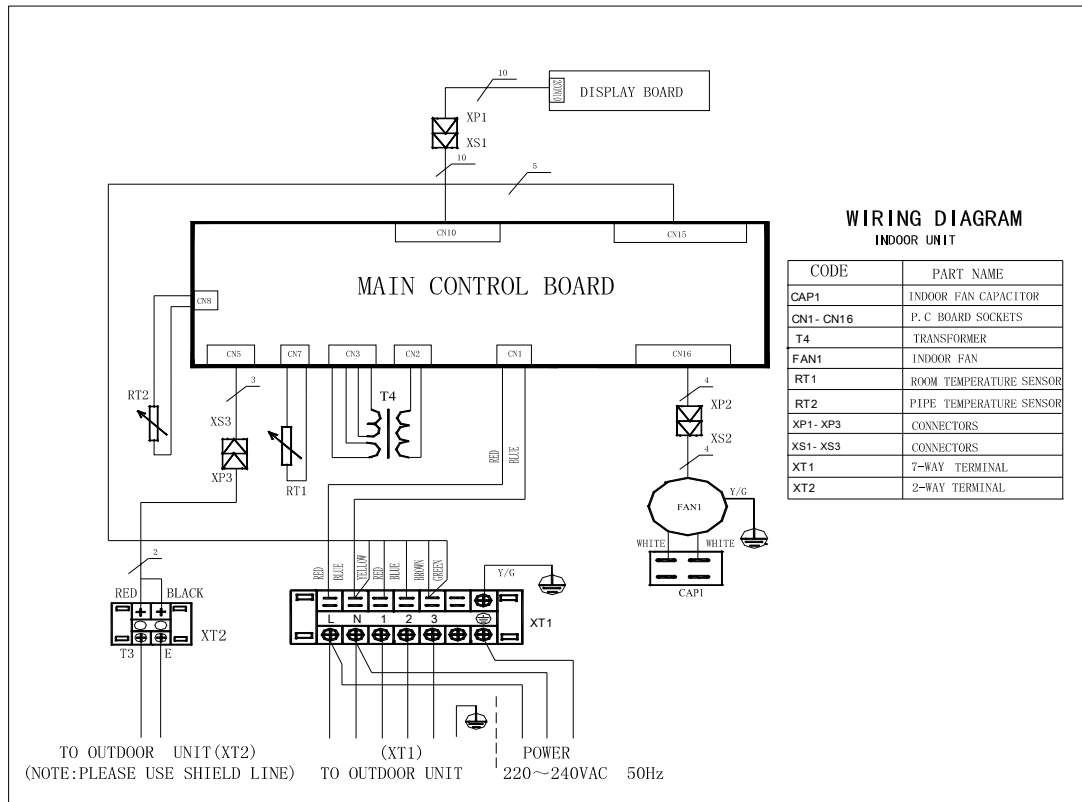
Type	Contents	LED1	LED2	LED3
Normal		Off	Off	On
Trouble	Phase sequence	On	Off	On
Trouble	Overload of current	Off	On	On
Trouble	Lack of phase	On	On	On
Trouble	Protection of pressure	On	On	On

5.2.3 LEDs for the indication of outdoor trouble(3 phase type,4~7HP)

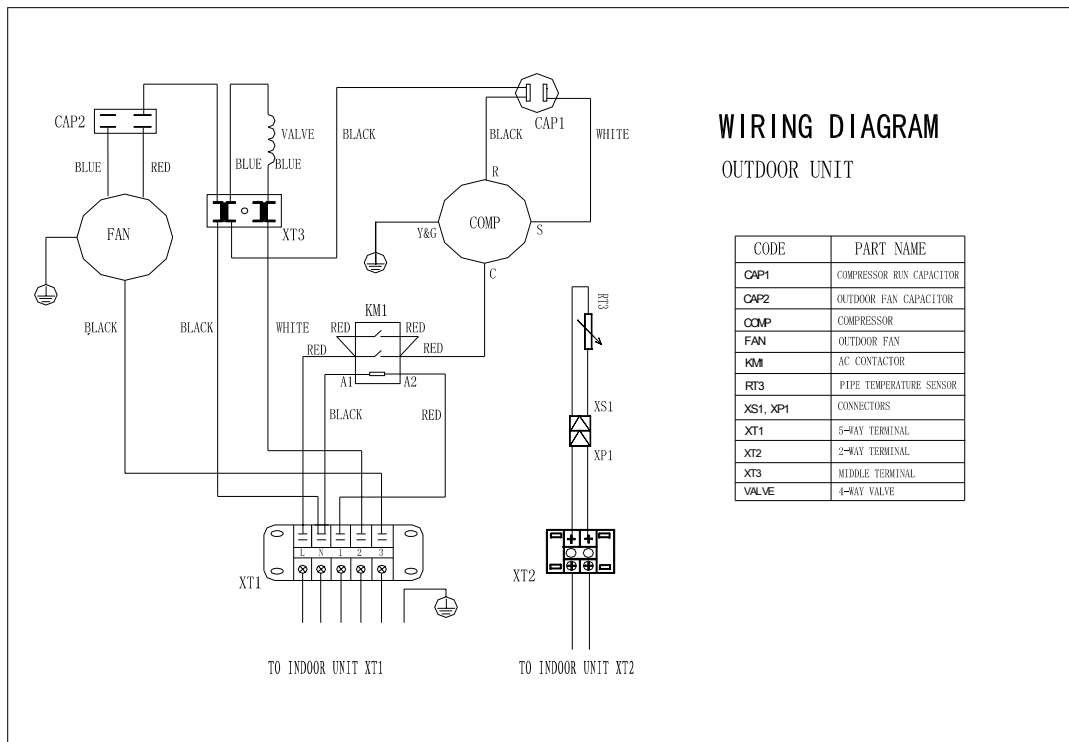
Type	Contents	LED1	LED2	LED3
Trouble	Phase sequence	Flash	Off	Off
Trouble	Lack of phase	Flash	Off	Off
Trouble	Protection of pressure	Flash	Flash	Off
Trouble	Overload of current	Off	Off	Flash
Trouble	Open-circuit and short-circuit trouble of T3	Off	Flash	Flash
Trouble	Open-circuit and short-circuit trouble of T4	Off	Flash	Off
Trouble	High temperature protection of condenser	Flash	Flash	Flash

INDOOR UNIT:

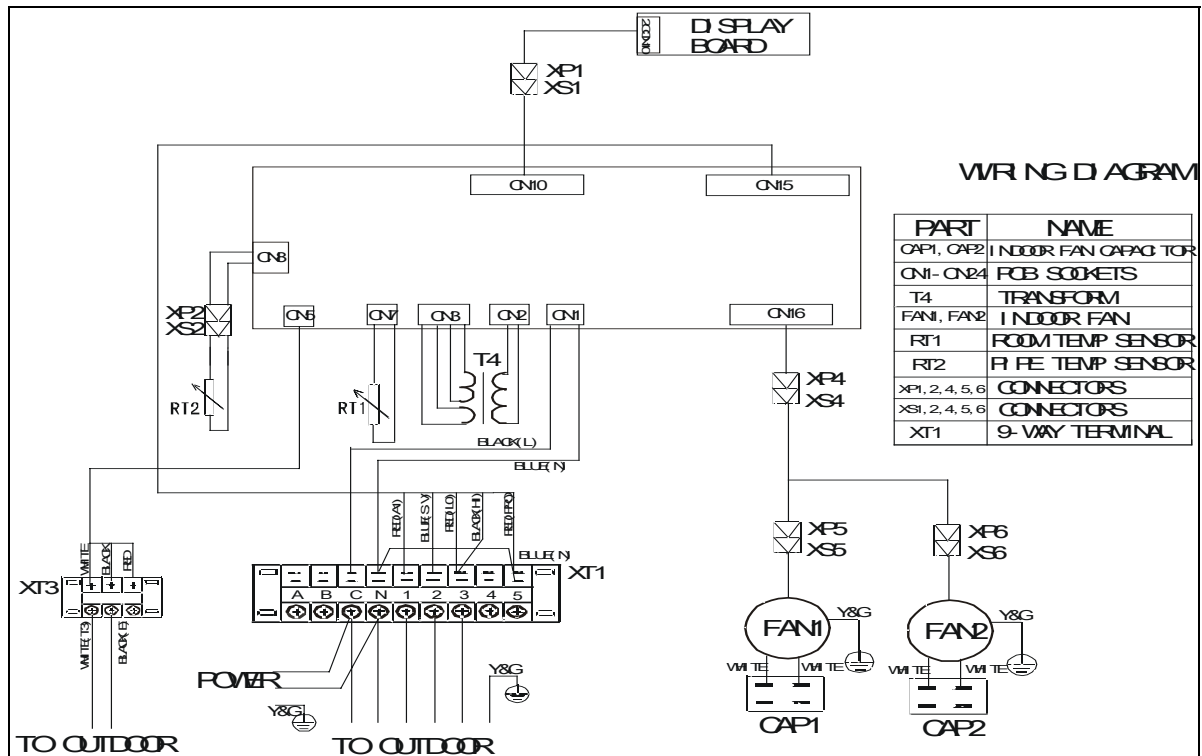
2. DITA-24HRN2(1phase) INDOOR UNIT:



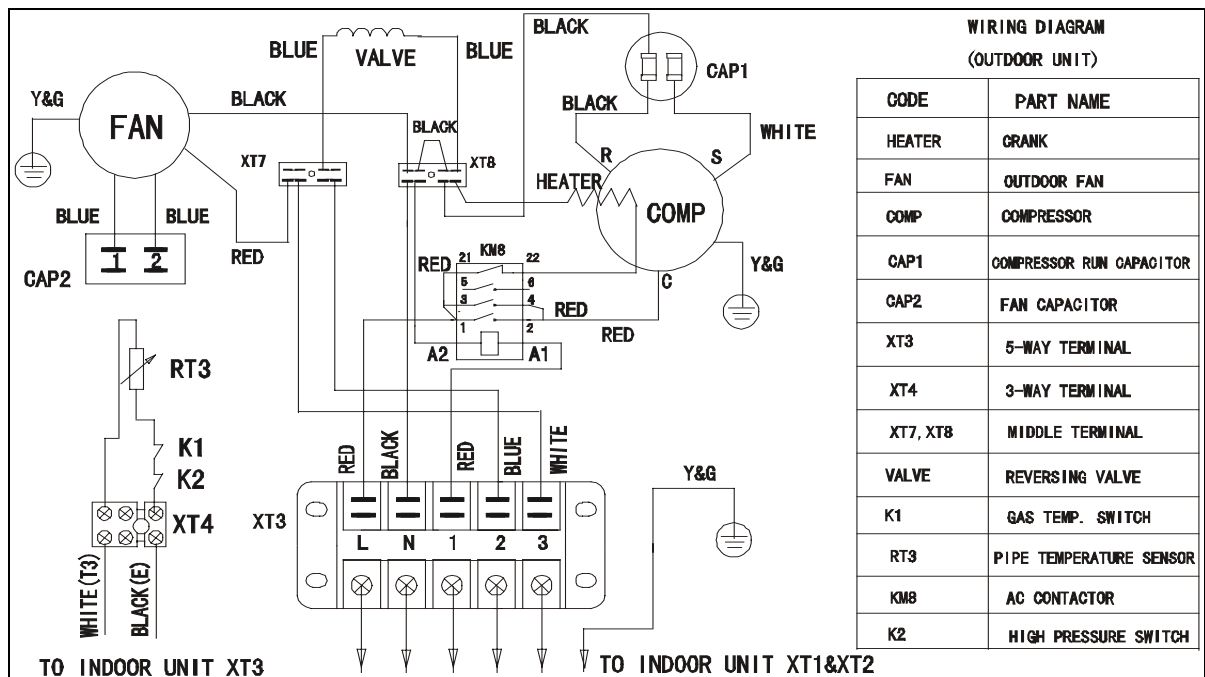
OUTDOOR UNIT:



3. DITA-30(36)HRN2(1phase) INDOOR UNIT:

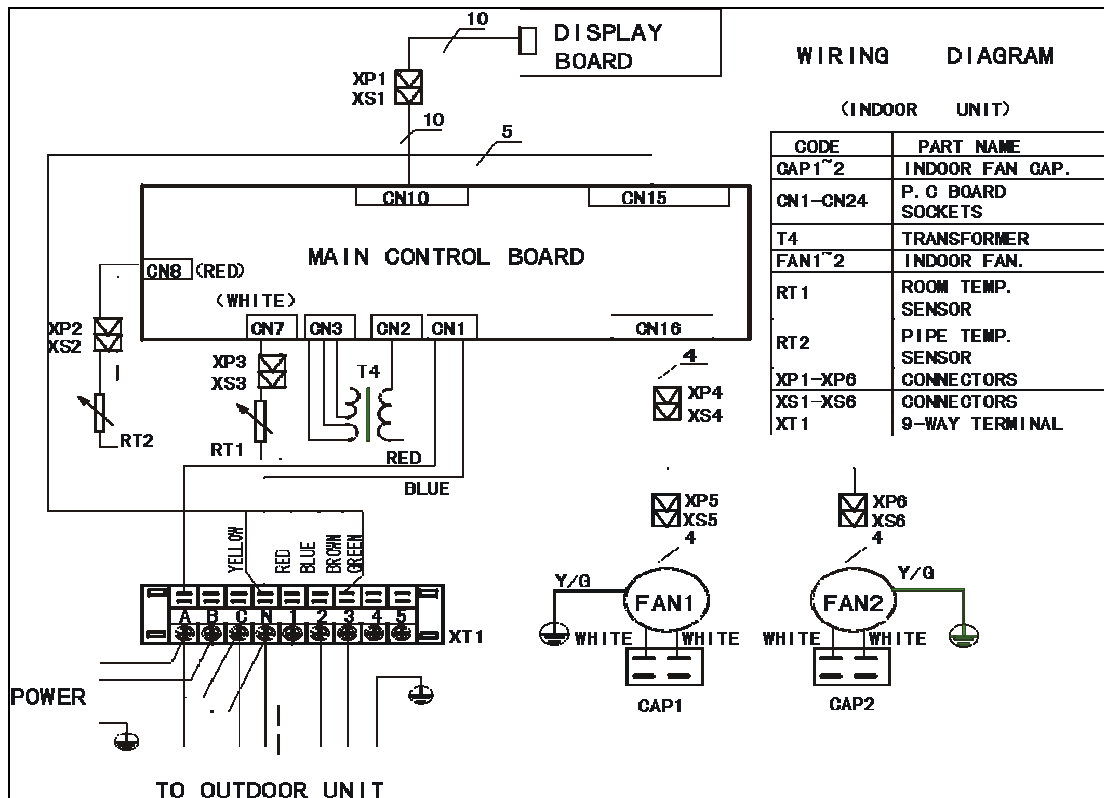


outdoor unit:

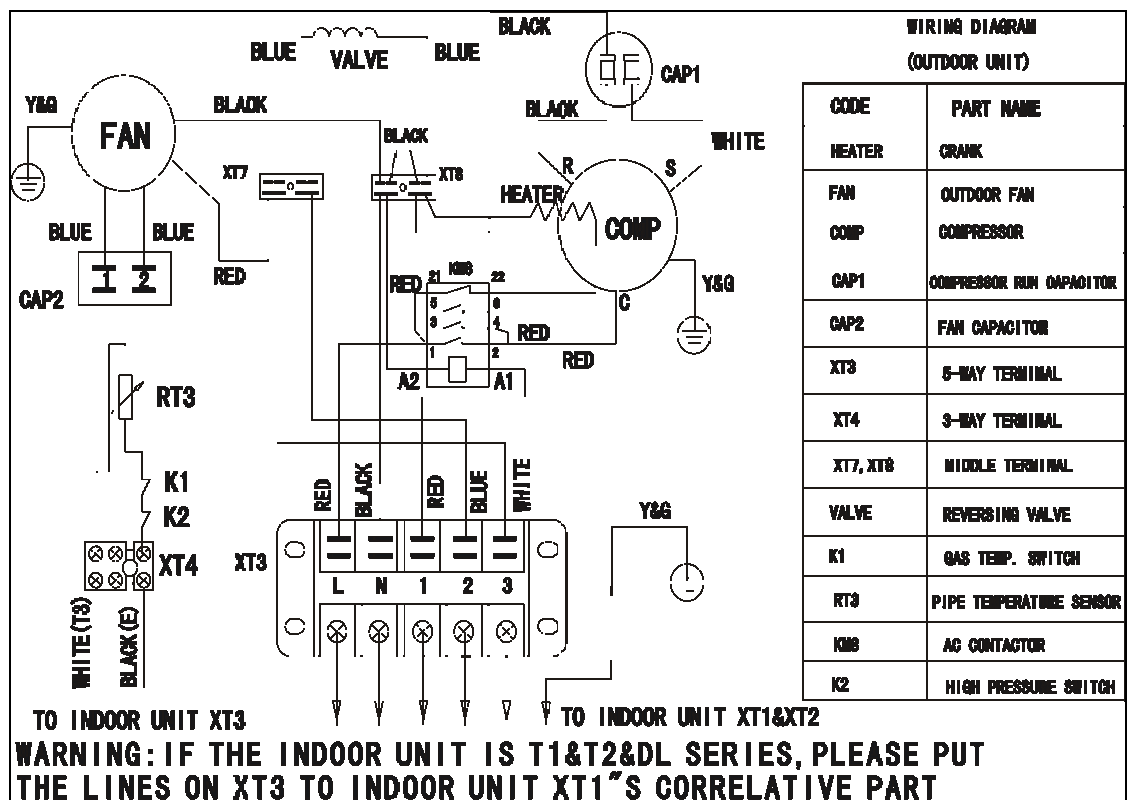


4. DITAT-36HRN2(3phase)

indoor unit

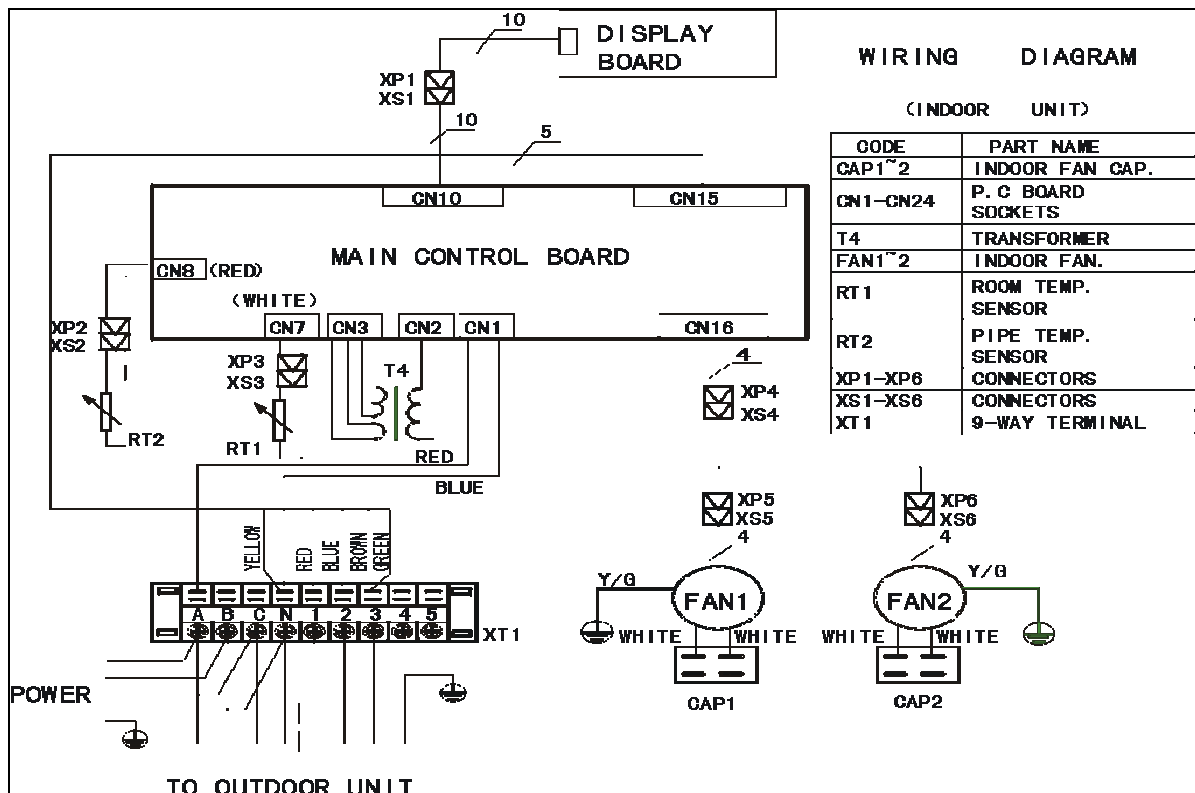


outdoor unit

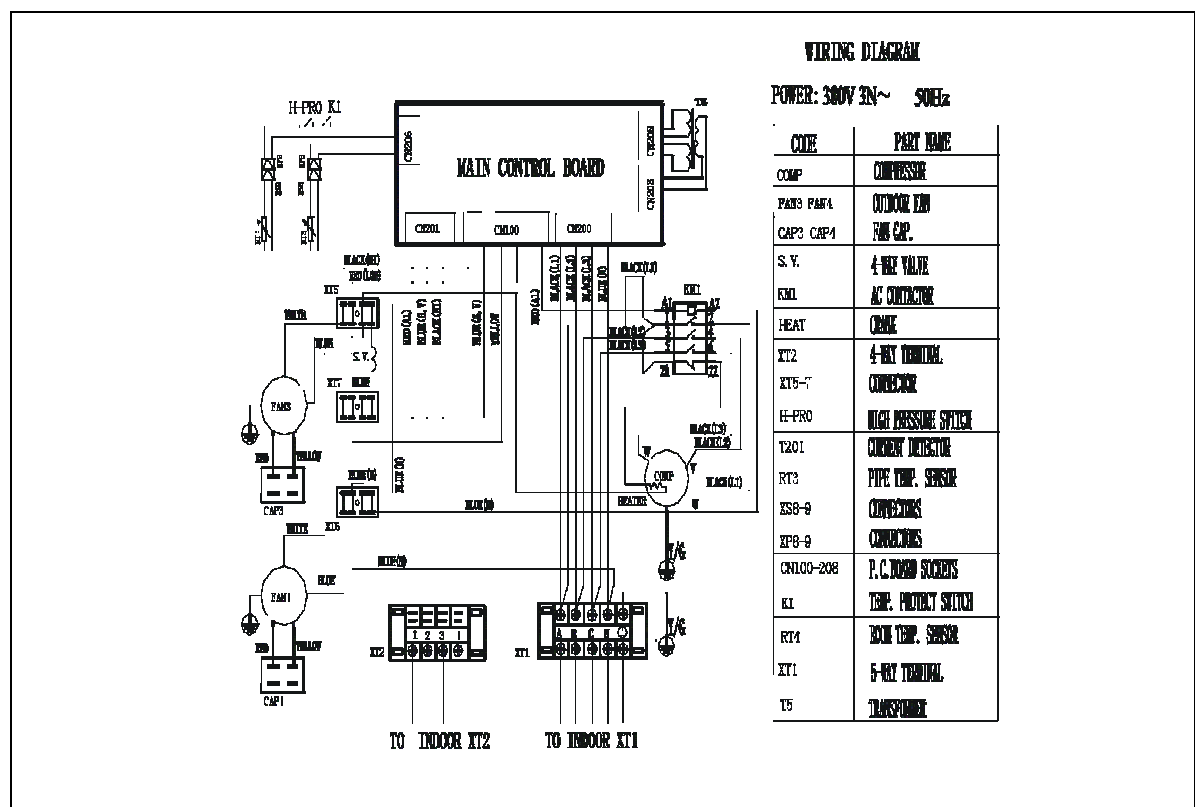


5. DITA-48(60)HRN2

indoor unit

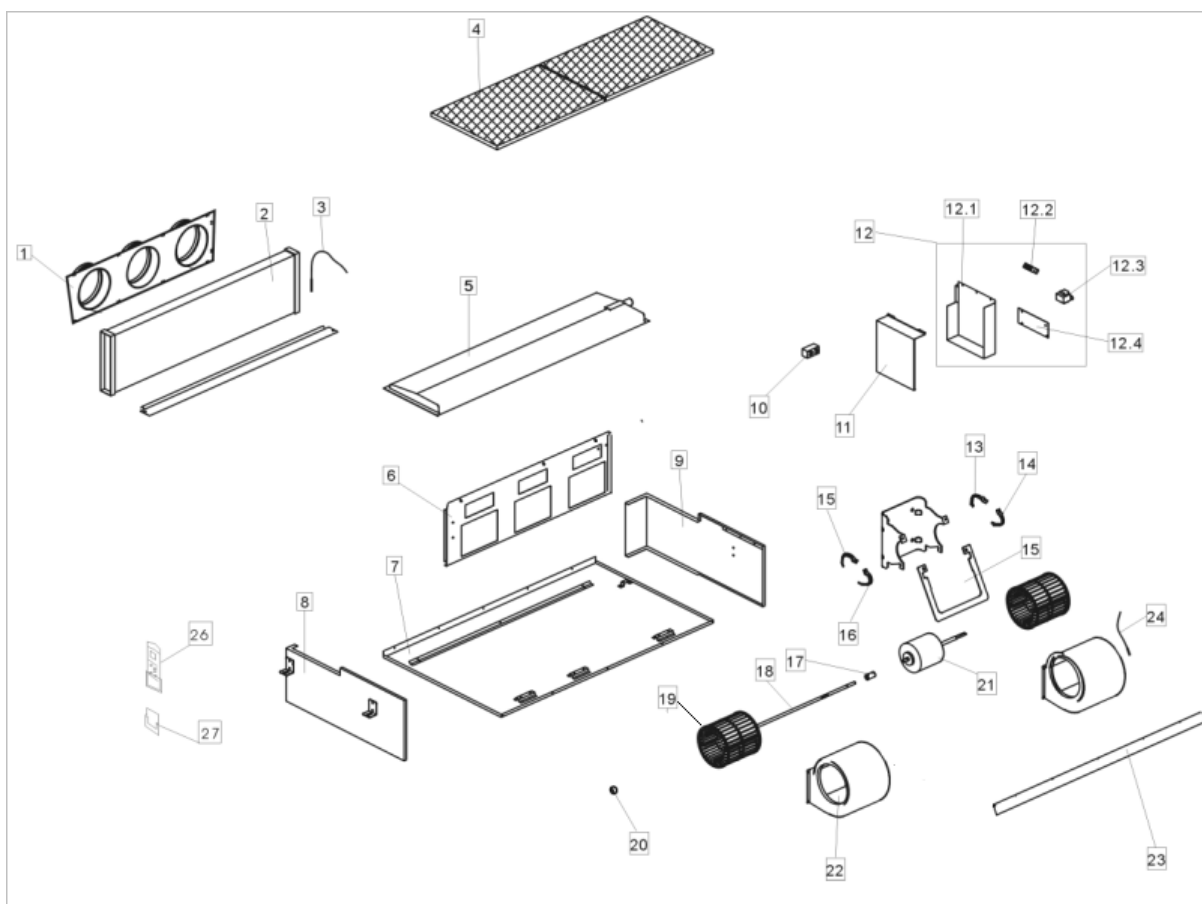


outdoor unit



Part 10 Exploded view

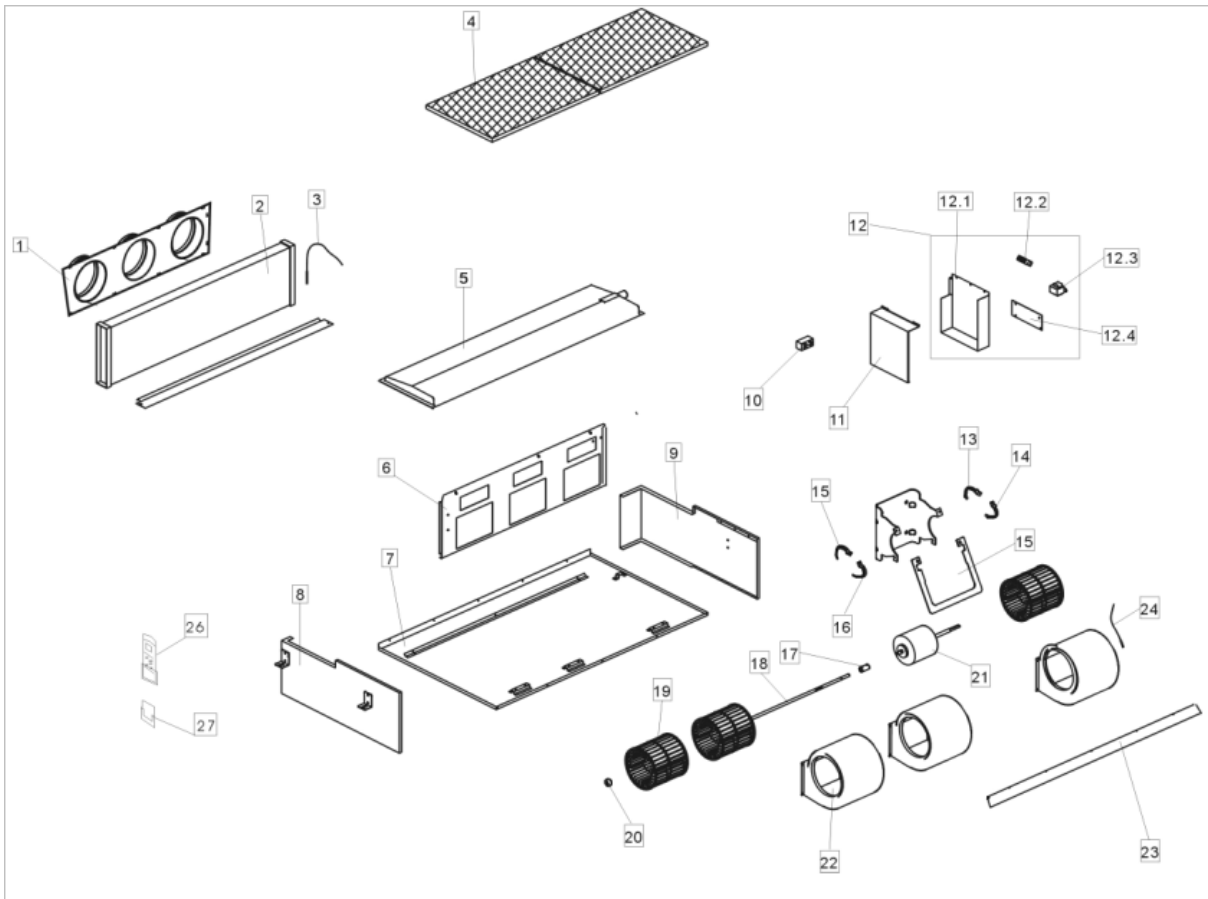
1. DITA-18HRN2



No.	Part Name	Quantity
1	Front Side, Ass'y	1
2	Evaporator	1
	Input pipe	1
	Output pipe	1
3	Evaporator temp sensor	1
4	Air filter, Ass'y	1
5	Base board for evaporator	1
6	Middle beam	1
7	Chassis	1
8	Left clapboard	1
9	Right clapboard	1
10	Capacitor	1
11	E-Parts box cover	1
12	Electric control assy	1
12.1	Electric control box	1

No.	Part Name	Quantity
12.2	Terminal Block, 7P	1
12.3	Transformer	1
12.4	Main control board	1
13	Right up fixing clamp for motor	1
14	Left up fixing clamp for motor	1
15	Left up fixing clamp for motor	1
16	Left up fixing clamp for motor	1
17	Axis joint	1
18	Axis	1
19	Fan wheel	3
20	Bearing	1
21	Fan motor	1
23	Rear beam	1
24	Indoor temp sensor	1
26	Remote controller	1

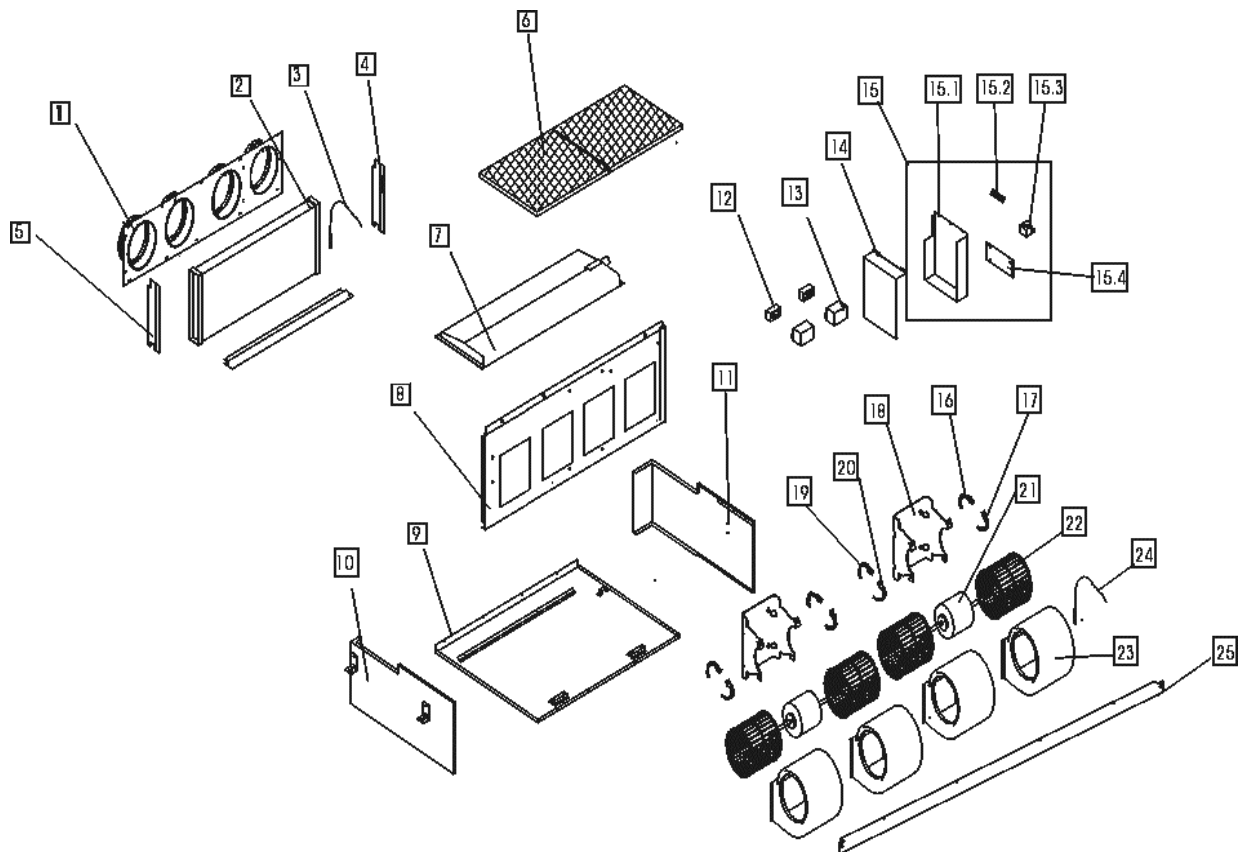
2. DITA-24HRN2



No.	Part Name	Quantity
1	Front Side, Ass'y	1
2	Evaporator	1
	Input pipe	1
	Output pipe	1
3	Evaporator temp sensor	1
4	Air filter, Ass'y	1
5	Base board for evaporator	1
6	Middle beam	1
7	Chassis	1
8	Left clapboard	1
9	Right clapboard	1
10	Capacitor	1
11	E-Parts box cover	1
12	Electric control assy	1
12.1	Electric control box	1

No.	Part Name	Quantity
12.2	Terminal Block, 7P	1
12.3	Transformer	1
12.4	Main control board	1
13	Right up fixing clamp for motor	1
14	Left up fixing clamp for motor	1
15	Axis joint	1
16	Axis	1
17	Fan wheel	3
18	Bearing	1
19	Fan motor	1
20	Rear beam	1
21	Indoor temp sensor	1
22	Remote controller	1
23	Remote controller	1
24	Remote controller	1
25	Remote controller	1
26	Remote controller	1
27	Remote controller	1

3. DITA-30HRN2 DITA(T)-36HRN2 DITA-48HRN2

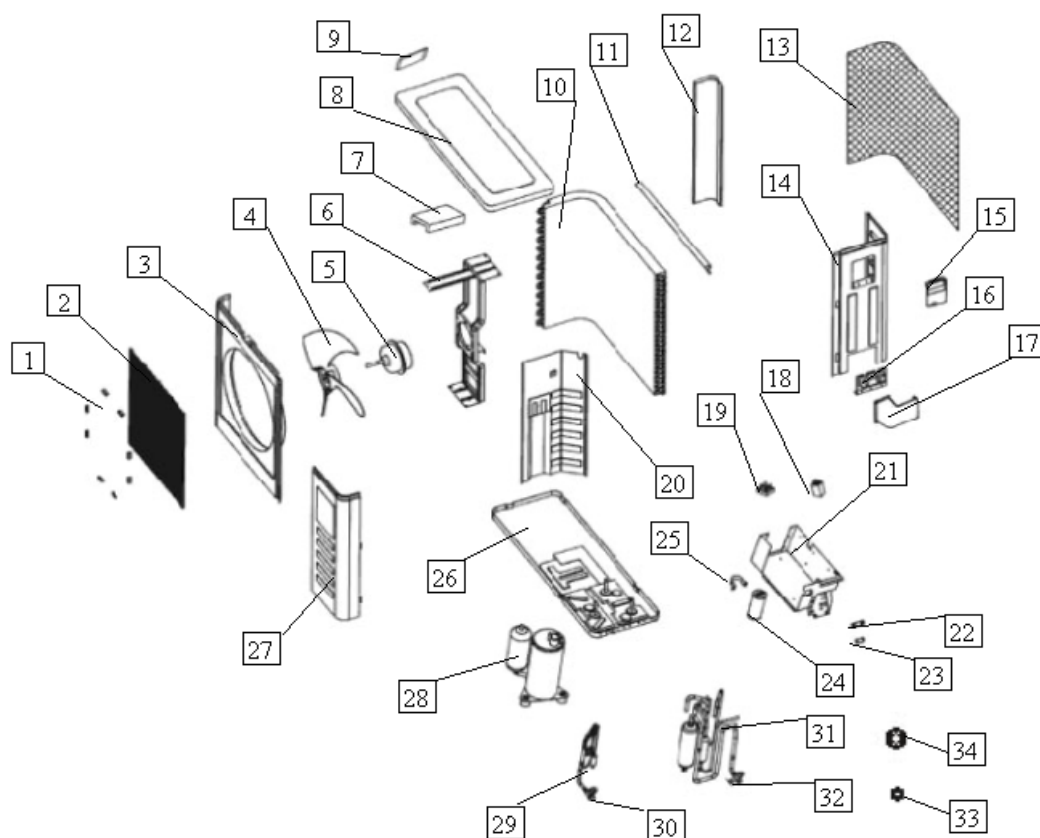


No.	Part Name	Quantity
1	Front Side	1
2	Evaporator	1
	Input pipe	1
	Output pipe	1
3	Evaporator temp sensor	1
4	Left separating board, evaporator	2
5	Right separating board, evaporator	2
6	Air filter	1
7	Base board for evaporator	1
8	Middle beam	1
9	Chassis	1
10	Left clapboard	1
11	Right clapboard	1
12	Capacitor	2
13	Capacitor box	2
14	E-Parts box cover	1

No.	Part Name	Quantity
15	Electric control assy	1
15.1	Electric control box	1
15.2	wire joint,7p	1
15.3	Transformer	1
15.4	Main control board	1
16	Right up fixing clamp for motor	2
17	Right down fixing clamp for motor	2
18	Holder for fan motor	2
19	Left up fixing clamp for motor	2
20	Left down fixing clamp for motor	4
21	Fan motor	1
22	Fan wheel	1
23	Volute shell	1
24	Indoor temp sensor	1
25	Rear beam	1

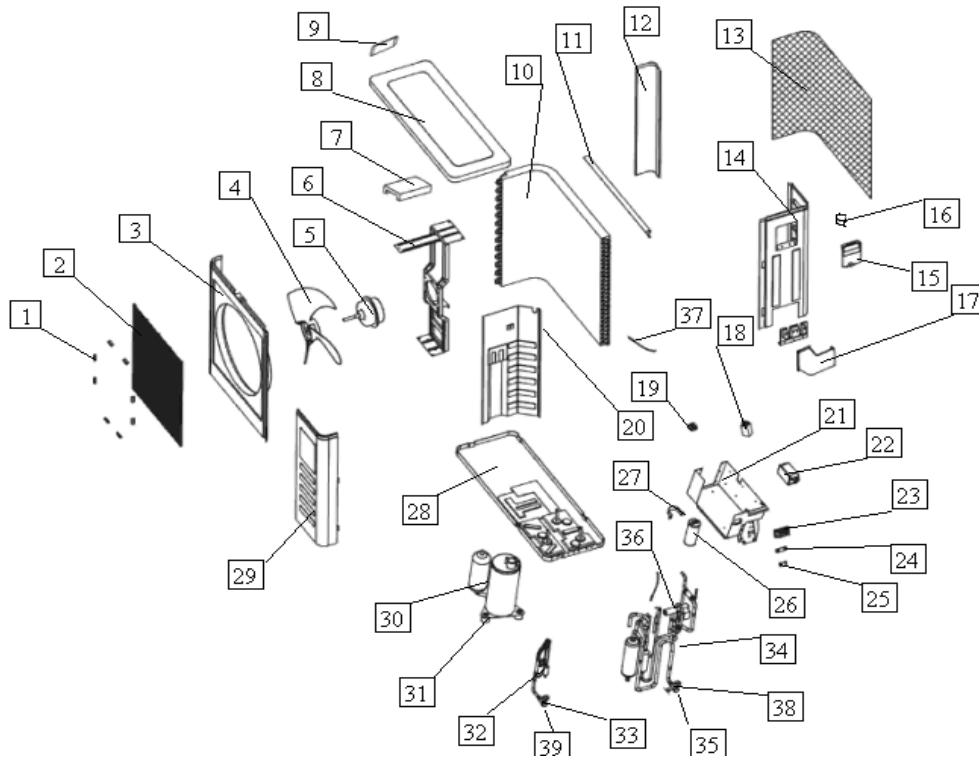
Outdoor unit

4. DOU-18HN2 (DITA-18HRN2 Outdoor unit)



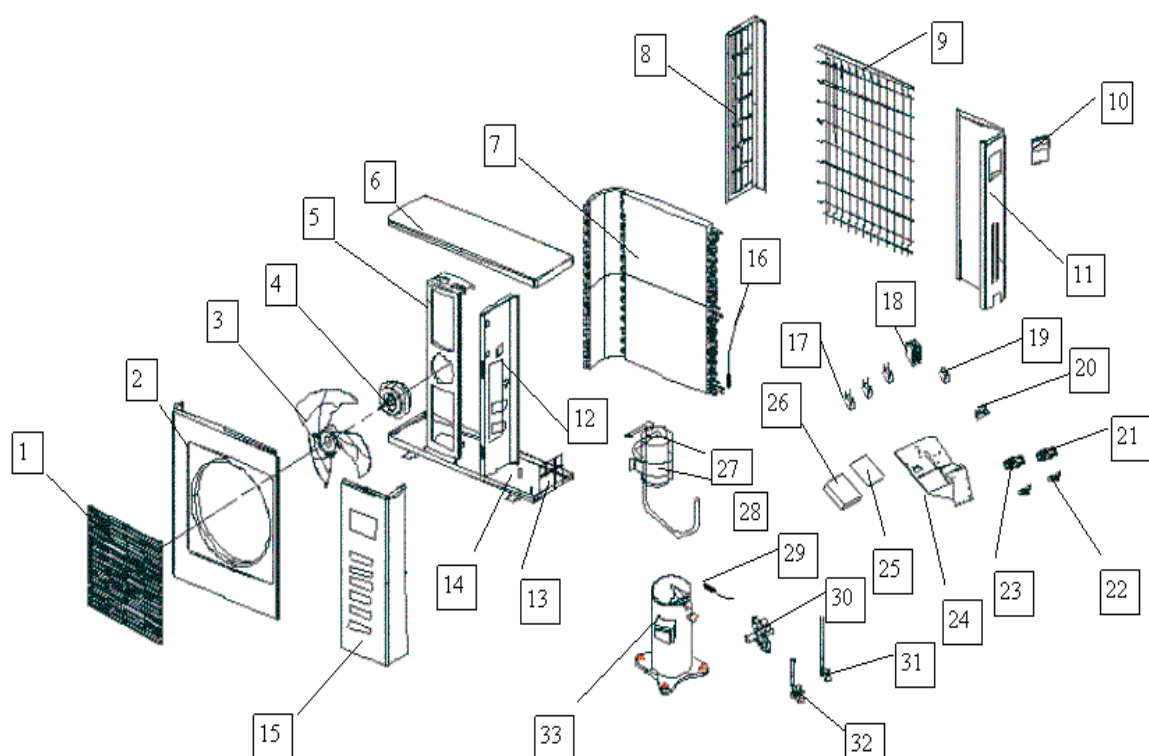
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Clamp for front net	8	19	Wire joint	1
2	Front net	1	20	Separating board	1
3	Front clapboard	1	21	Installation board for E-parts	1
4	Propeller fan	1	22	Washer for wire joint	1
5	Fan motor	1	23	Clamp for wiring	1
6	Holder for fan motor	1	24	Compressor capacitor	1
7	Foam over holder for motor	1	25	Capacitor clamp	1
8	Cover	1	26	Chassis	1
9	Little handle	1	27	Front right clapboard	1
10	Condenser	1	28	Compressor	1
11	Support board, motor holder	1	29	Rubber underlay, compressor	3
12	Left clapboard	1	30	Liquid valve assy	1
13	Rear net	1	31	Liquid pipe valve	1
14	Rear right clapboard	1	32	4-Ways valve assy	1
15	Big handle	1	33	Gas pipe valve	1
16	Installation plate for valves	1	34	Four-way Valve	1
17	Water collector	1	35	Copper nut, TLM-B02	1
18	Fan motor capacitor	1			

5. DOU-24HN2 (DITA-24HRN2, Outdoor unit)



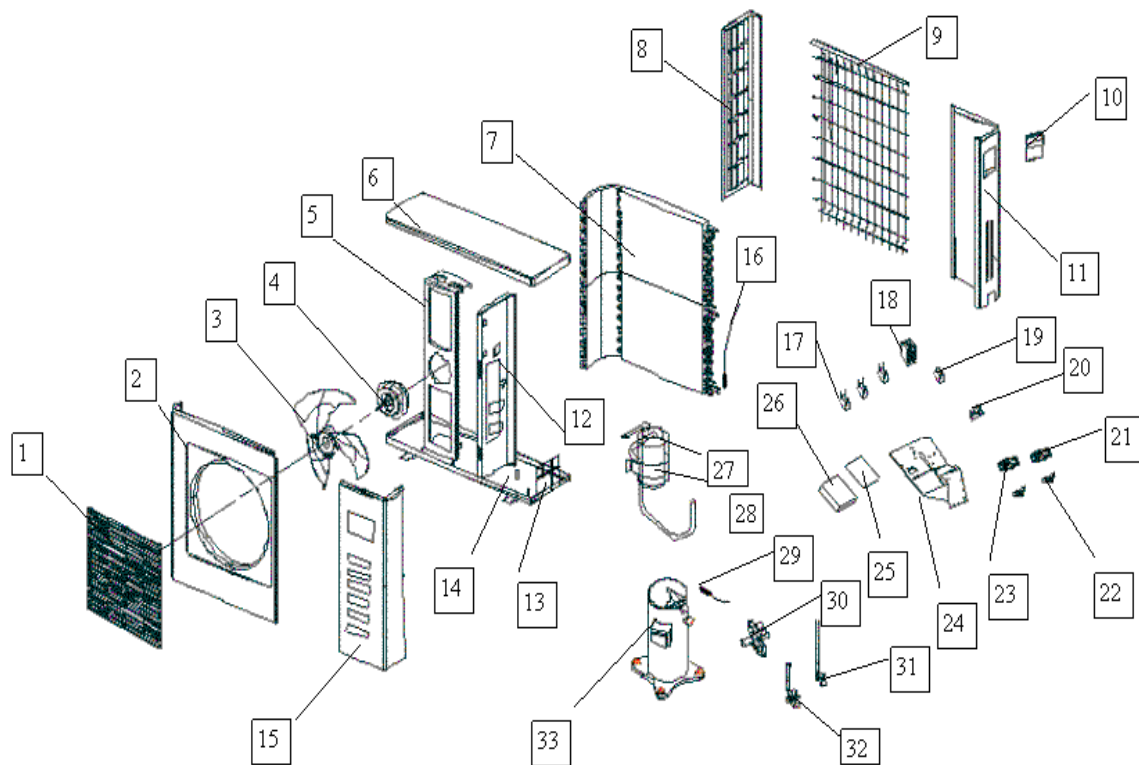
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Clamp for front net	8	21	Wiring Installation Panel	1
2	Front net	1	22	Contactor,AC	1
3	Front clapboard	1	23	Terminal Block,5p	1
4	Propeller fan	1	24	Washer for wire joint	1
5	Fan motor	1	25	Wire Clamp	1
6	Holder for fan motor	1	26	Running Capacitor, Compressor	1
7	Foam over holder for motor	1	27	Capacitor Clamp	1
8	Cover	1	28	Base Pan Ass'y	1
9	Little handle	1	29	Cabinet, Front-Right	1
10	Condenser Ass'y	1	30	Compressor	1
11	Support board ,motor holder	1	31	Rubber underlay , compressor	3
12	Left clapboard	1	32	Capillary pipe Ass'y	1
13	Rear net	1	33	High Pressure Valve ,1/4 in.	1
14	Rear right clapboard	1	34	Four-way valve Ass'y	1
15	Big handle	1	35	Gas pipe valve	1
16	Handle	2	36	4-way valve	1
17	Water collector	1	37	Condenser temp sensor	1
18	Fan motor capacitor	1	38	Copper nut	1
19	Terminal Block,2p	1	39	Copper nut	1
20	Separating board	1			

6. DOU-30HN2 (DITA-30HRN2, Outdoor unit)



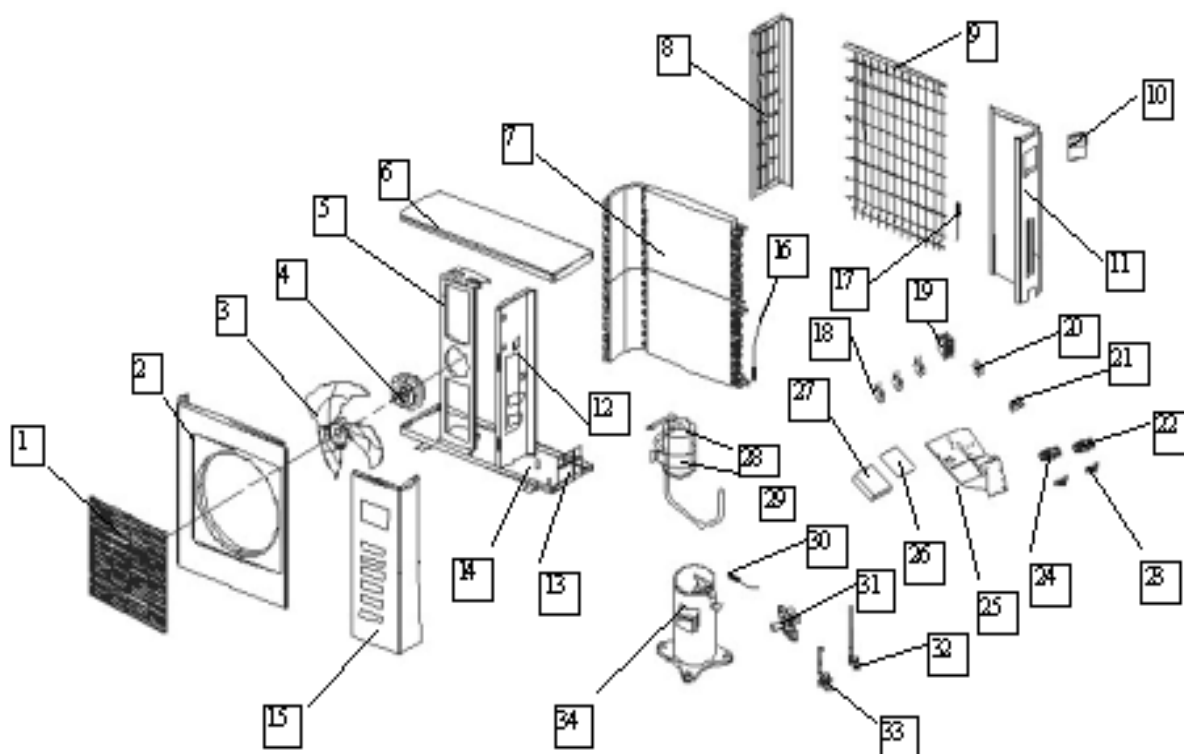
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Front net	1	18	AC Contactor	1
	Clamp for front net	10	19	Running Capacitor, Compressor	1
2	Front clapboard	1	20	Fan motor capacitor	1
3	Propeller fan	1	21	Wire joint, 3p	1
4	Fan Motor	1	22	Washer for wire joint	1
5	Holder for fan motor	1	23	Wire joint, 5p	1
6	Top Cover	1	24	Installation board for E-parts	1
7	Condenser I	1	25	Clamp for wiring	1
9	Condenser II	1	26	Terminal install board	1
8	Left clapboard	1	27	Refrigerant container	1
9	Rear Net	1	28	Fixing clamp, container	1
10	Big Handle	1	29	Discharge temp sensor	1
11	Rear right clapboard	1	30	4-Ways valve	1
12	Separating board	1	33	Liquid pipe valve	1
13	Installation plate for valves	1	32	Gas pipe valve	1
14	Chassis	1	33	Compressor	1
15	Front right clapboard	1		Electric heater for compressor	1
16	Condenser pipe temp sensor	1			
17	Wire joint for multiplexer	2			

7. DOU-36HN2 (DITA-36HRN2, Outdoor unit)



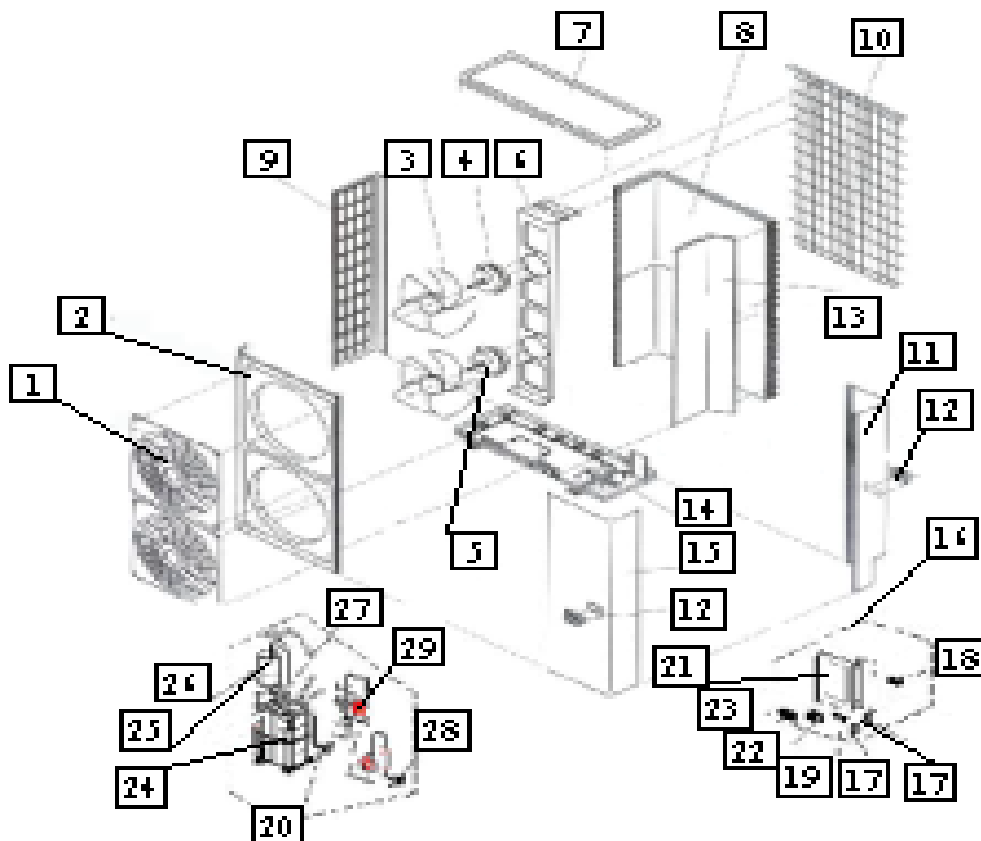
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Front net	1	17	Wire joint for multiplexer	2
	Clamp for front net	10	18	AC Contactor	1
2	Front clapboard	1	19	Running Capacitor, Compressor	1
3	Propeller fan	1	20	Fan motor capacitor	1
4	Fan Motor	1	21	Wire joint, 3p	1
5	Holder for fan motor	1	22	Washer for wire joint	1
6	Top Cover	1	23	Wire joint, 5p	1
7	Condenser I	1	24	Installation board for E-parts	1
7	Condenser II	1	25	Clamp for wiring	1
8	Left clapboard	1	26	Terminal install board	1
9	Rear Net	1	27	Refrigerant container	1
10	Big Handle	1	28	Fixing clamp, container	1
11	Rear right clapboard	1	29	Discharge temp sensor	1
12	Separating board	1	30	4-Ways valve	1
13	Installation plate for valves	1	31	Liquid pipe valve	1
14	Chassis	1	32	Gas pipe valve	1
15	Front right clapboard	1	33	Compressor	1
16	Condenser pipe temp sensor	1		Electric heater for compressor	1

8. DOUT-36HN2 (DITAT-36HRN2, Outdoor unit)



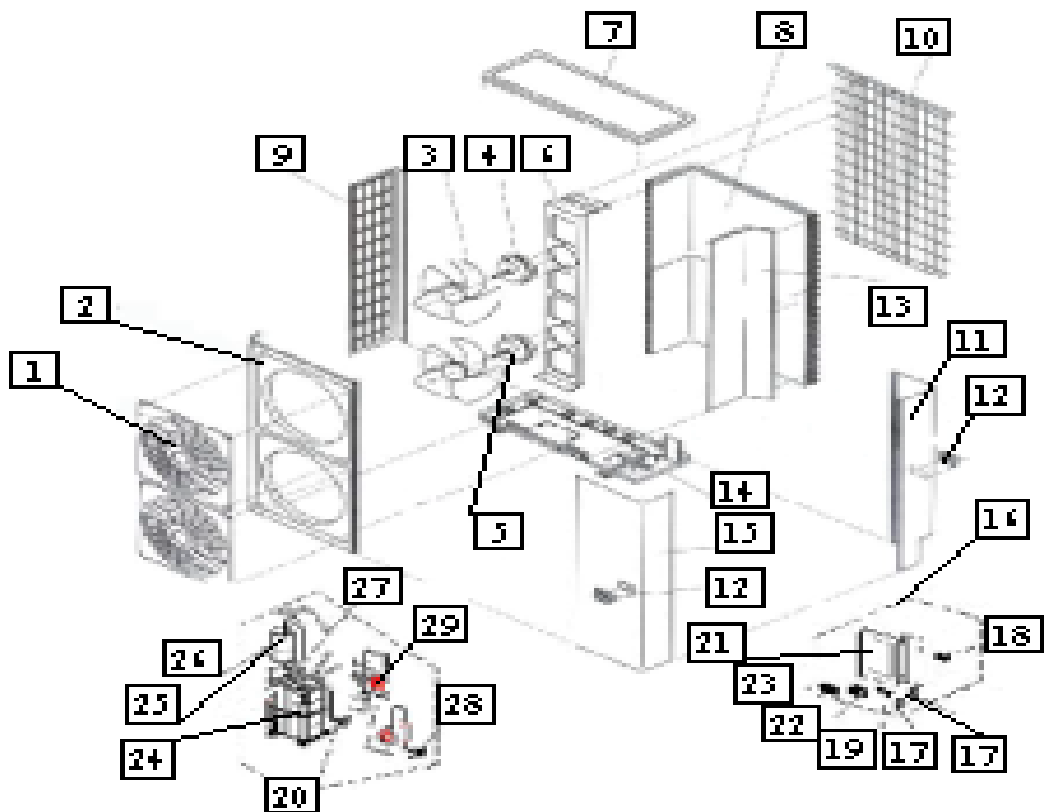
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Front net	1	17	Outdoor temp sensor	1
	Clamp for front net	10	18	Wire joint for multiplexer	3
2	Front clapboard	1	19	Contactor AC	1
3	Propeller fan	1	20	Transformer	1
4	Fan Motor	1	21	Fan motor capacitor	1
5	Holder for fan motor	1	22	Wire joint for power	1
6	Cover	1	23	Washer for wire joint	1
7	Condenser I	1	24	Wire joint, 4p	1
7	Condenser II	1	25	Installation board for E-parts	1
8	Left clapboard	1	26	Main control board	1
9	Rear Net	1	27	Main board box	1
10	Big Handle	1	28	Refrigerant container	1
11	Rear right clapboard	1	29	Fixing clamp, container	1
12	Separating board	1	30	Discharge temp sensor	1
13	Installation plate for valves	1	31	4-Ways valve	1
14	Chassis	1	32	Liquid pipe valve	1
15	Front right clapboard	1	33	Gas pipe valve	1
16	Condenser pipe temp sensor	1	34	Compressor	1
				Electric heater for compressor	1

9. DOU-48HN2 (DITA-48HRN2, Outdoor unit)



No.	Part Name	Quantity	No.	Part Name	Quantity
1	Front net	2	18	Terminal Block,2p	3
2	Cabinet, Front	1	19	Contactor, AC	1
3	Fan, Propeller	2	20	Low Pressure Valve, 3/8 in.	1
4	Fan Motor, Down	1	21	PCB Ass'y	1
5	Fan Motor	1	22	Terminal Block, 4p	1
6	Mount, Fan Motor	1	23	Wire joint for power	1
7	Top cap Ass'y	1	24	Compressor	1
8	Condenser I	1	25	Refrigerator Container	1
	Condenser II	1	26	Fixture, Segregator	1
9	Left Side Cabinet	1	27	Four-way Valve	1
10	Supporter, Rear Cabinet	1	27	Four-way Valve Solenoid	1
11	Cabinet, Back side	1	28	High Pressure Valve .	1
12	Handle	2	29	Capillary Tube Ass'y	1
13	Plate, Sound-proof	1	30	Electric heat belt for comp	1
14	Base Pan Ass'y	1	31	Discharge temp controller	1
15	Cabinet, Front Side	1	32	Condenser temp sensor	1
16	E-control box, ass'y	1	33	Room temp sensor	1
17	Capacitor, Fan Motor	2			

10. DOU-60HN2 (DITA-60HRN2, Outdoor unit)



No.	Part Name	Quantity	No.	Part Name	Quantity
1	Guard fan	2	18	Terminal Block, 2p	3
2	Cabinet, Front	1	19	Contactor, AC	1
3	Fan, Propeller	2	20	Low Pressure Valve, 3/8 in.	1
4	Fan Motor, Down	1	21	PCB Ass'y	1
5	Fan Motor	1	22	Terminal Block, 4p	1
6	Mount, Fan Motor	1	23	Wire joint for power	1
7	Topcap Ass'y	1	24	Compressor	1
8	Condenser	1	25	Refrigerator Container	1
8	Left Side Cabinet	1	26	Fixture, Segregator	1
9	Supporter, Rear Cabinet	1	27	Four-way Valve	1
10	Cabinet, Back side	1	27	Four-way Valve Solenoid	1
11	Handle	2	28	High Pressure Valve .	1
12	Plate, Sound-proof	1	29	Capillary Tube Ass'y	1
13	Base Pan Ass'y	1	30	Electric heat belt for comp	1
14	Cabinet, Front Side	1	31	Discharge temp controller	1
15	E-control box, ass'y	1	32	Condenser temp sensor	1
16	Capacitor, Fan Motor	2	33	Room temp sensor	1
17	Guard fan	2			