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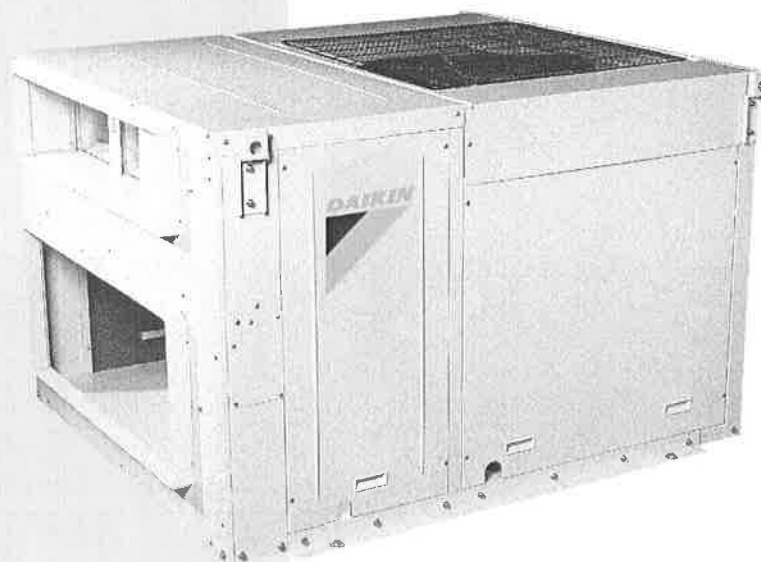
R407C

TECHNICAL MANUAL

**Packaged Air Conditioner
Rooftop A series**

UATP-A and UATYP-A Series

— Cooling only & Heatpump [50Hz] —



TM-4RT-A-ST-A1

Nomenclature

UAT Y P 100 A G X Y1

Product Type

UAT : Rooftop

Model Type

" " : Cooling

Y : Heatpump

Refrigerant

P : R407C

Q : R410A

" " : R22

Size

100 : 100,000 Btu/h

Product series

A : A Series

Revision/Specification

9 : Mechanical Control

" " : PCB Control

Power Supply

Y1 : 380~415V/3Ph/50Hz

Product Origin

X : OYLM

Product Specification Variation

G : Gold Fin (Outdoor Coil)

" " : Bare Fin (Outdoor Coil)

Engineering & Physical Data

Engineering Data – R407C COOLING MODEL

MODEL		UATP60AGXY1	UATP80AGXY1	UATP100AGXY1	UATP120AGXY1	
INDOOR UNIT	NOMINAL COOLING CAPACITY	Btu/h 59000	72000	95000	110000	
		W 17291	21101	27840	32238	
	NOMINAL TOTAL INPUT POWER (COOLING)	W 5890	8700	11600	12180	
	NOMINAL RUNNING CURRENT (COOLING)	A 10.90	16.30	20.20	22.80	
	EER	W/W 2.94	2.43	2.40	2.65	
	REFRIGERANT CONTROL (EXPANSION DEVICE)			TXV		
	REFRIGERANT CHARGE	kg 4.60	4.60	5.90	5.60	
	POWER SOURCE	V/Ph/Hz 380-415/3/50				
	REFRIGERANT TYPE			R407C		
	CONTROL	AIR DISCHARGE OPERATION		DUCTED		
INDOOR UNIT	AIR FLOW	l/s / CFM 850 / 1800	1334 / 2826	1667 / 3532	1699 / 3600	
	EXTERNAL STATIC PRESSURE	Pa (in.wg.) 98 / 10	98	98	98	
	SOUND PRESSURE LEVEL	dBA 63	65	66	68	
	CONDENSATE DRAIN SIZE	mm 25.4				
	FAN	TYPE DRIVE		CENTRIFUGAL BELT DRIVE		
	FAN MOTOR	TYPE		INDUCTION MOTOR		
		INDEX OF PROTECTION (IP)		IP22		
		INSULATION GRADE		F		
		RATED INPUT POWER	W 470	1200	1900	1340
		RATED RUNNING CURRENT	A 1.49	2.10	2.70	2.59
MOTOR MAX OUTPUT	W 750	1100	1500	1500		
POLES	4	4	4	4		
COIL	TUBE	MATERIAL DIAMETER	COPPER 9.52			
		mm				
	FIN	MATERIAL	ALUMINIUM	ALUMINIUM	ALUMINIUM	ALUMINIUM
		FACE AREA	0.53	0.65	0.65	0.63
		ROW	3	3	4	4
AIR QUALITY	FILTER	TYPE	SARANET			
		QUANTITY	1	1	1	2 + 4
OUTDOOR UNIT	AIR FLOW	l/s / CFM 2124 / 4500	2667 / 5650	2667 / 5650	3776 / 8000	
	SOUND PRESSURE LEVEL	dBA 63	65	66	68	
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH mm	1000 x 1100 x 1530	1000 x 1300 x 1530	1000 x 1300 x 1530	1000 x 1300 x 1530
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH mm	1090 x 1250 x 1680	1090 x 1450 x 1680	1090 x 1450 x 1680	1090 x 1450 x 1680
	UNIT WEIGHT	kg 295	370	400	425	
	FAN	TYPE		PROPELLER		
		DRIVE		DIRECT		
		TYPE		INDUCTION MOTOR		
		INDEX OF PROTECTION (IP)		IP55		
		INSULATION GRADE		F		
FAN MOTOR	RATED INPUT POWER	W 590	670	670	960	
	RATED RUNNING CURRENT	A 2.53	1.30	1.30	2.40	
	MOTOR MAX OUTPUT	W 400	550	550	580	
	POLES	6	6	6	8	
	COMPRESSOR	TYPE		SCROLL		
OIL TYPE			MINERAL OIL			
OIL AMOUNT		cm ³ 1770	2510	3250	3250	
RATED INPUT POWER		W 4820	6830	9030	10220	
RATED RUNNING CURRENT		A 8.50	12.90	16.20	17.80	
LOCKED ROTOR AMP.	A 74	95	125	125		
COIL	TUBE	MATERIAL DIAMETER	COPPER 9.52			
		mm				
	FIN	MATERIAL	ALUMINIUM	ALUMINIUM	ALUMINIUM	ALUMINIUM
		FACE AREA	1.42	1.40	1.38	1.38
		ROW	2	2	3	3
CASING	COLOUR	LIGHT GREY				

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB/ 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB/ 24°C WB	OUTDOOR: 8°C DB/ 6°C WB

Engineering Data – R407C COOLING MODEL

MODEL		UATP150AGXY1	UATP200AGXY1	UATP250AGXY1	UATP300AGXY1		
NOMINAL COOLING CAPACITY		Btu/h	140000	190000	230000	275000	
		W	41030	55684	67409	80600	
NOMINAL TOTAL INPUT POWER (COOLING)		W	17200	25100	28700	37850	
NOMINAL RUNNING CURRENT (COOLING)		A	32.10	43.80	53.00	55.80	
EER		W/W	2.39	2.22	2.20	2.13	
REFRIGERANT CONTROL (EXPANSION DEVICE)		TXV					
REFRIGERANT CHARGE		kg	3.90	4.20	9.60	10.4 / 10.4	
POWER SOURCE		V/Ph/Hz	380-415/3/50				
REFRIGERANT TYPE		R407C					
		DUCTED					
		WIRED CONTROL					
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION					
	AIR FLOW	l/s / CFM	2667 / 5651	3167 / 6710	3776 / 8000	4531 / 9600	
	EXTERNAL STATIC PRESSURE	Pa (in.wg.)	196	196	294	294	
	SOUND PRESSURE LEVEL	dB(A)	70	70	74	74	
	CONDENSATE DRAIN SIZE	mm	25.4				
	FAN	TYPE	CENTRIFUGAL				
		DRIVE	BELT DRIVE				
		TYPE	INDUCTION MOTOR				
		INDEX OF PROTECTION (IP)	IP22				
		INSULATION GRADE	F				
	FAN MOTOR	RATED INPUT POWER	W	2200	3500	4700	6800
		RATED RUNNING CURRENT	A	3.80	4.90	9.10	11.70
	MOTOR MAX OUTPUT	W	2200	3700	5500	7500	
	POLES	4					
COIL	TUBE	MATERIAL	COPPER				
		DIAMETER	9.52				
	FIN	MATERIAL	ALUMINIUM	ALUMINIUM	ALUMINIUM	ALUMINIUM	
		FACE AREA	m ²	0.57	0.57	1.83	0.91
	ROW		3	4	4	4	
AIR QUALITY	FILTER	TYPE	SARANET				
		QUANTITY	pc	2	2	2	2
AIR FLOW		l/s / CFM	5333 / 11300				
SOUND PRESSURE LEVEL		dB(A)	70	70	74	74	
UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1200 x 1990 x 1800	1200 x 1990 x 1800	1735 x 2250 x 2800	1735 x 2250 x 2800	
PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1320 x 2100 x 1810	1320 x 2100 x 1810	1900 x 2250 x 2900	1900 x 2250 x 2900	
UNIT WEIGHT		kg	665	765	1200	1350	
OUTDOOR UNIT	FAN	TYPE	PROPPELLER				
		DRIVE	DIRECT				
		TYPE	INDUCTION MOTOR				
		INDEX OF PROTECTION (IP)	IP55				
		INSULATION GRADE	F				
	FAN MOTOR	RATED INPUT POWER	W	1280	1280	4200	1980
		RATED RUNNING CURRENT	A	2.7	2.7	7.2	3.4
		MOTOR MAX OUTPUT	W	550	550	1500	1500
		POLES	6				
	COMPRESSOR	TYPE	SCROLL				
			OIL TYPE	MINERAL OIL			
			OIL AMOUNT	cm ³	2510	3250	3250
		RATED INPUT POWER	W	13720	20320	19800	27200
		RATED RUNNING CURRENT	A	25.60	36.20	36.70	47.40
	LOCKED ROTOR AMP.	A	95	125	125	174 & 174	
COIL	TUBE	MATERIAL	COPPER				
		DIAMETER	9.52				
	FIN	MATERIAL	ALUMINIUM	ALUMINIUM	ALUMINIUM	ALUMINIUM	
		FACE AREA	m ²	1.25	1.21	2.98	2.98
	ROW		2	3	2	2 & 2	
CASING		COLOUR	LIGHT GREY				

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COOLING	HEATING
INDOOR: 27°C DB/ 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB/ 24°C WB	OUTDOOR: 8°C DB/ 6°C WB

Engineering Data – R407C COOLING MODEL

MODEL			UATP360AGXY1	UATP420AGXY1	
NOMINAL COOLING CAPACITY	Etu/h		331000	415000	
	W		97007	121624	
NOMINAL TOTAL INPUT POWER (COOLING)	W		41870	46800	
NOMINAL RUNNING CURRENT (COOLING)	A		74.20	83.70	
EER	W/W		2.32	2.49	
REFRIGERANT CONTROL (EXPANSION DEVICE)			TXV		
REFRIGERANT CHARGE	kg		14.5 / 18.0	18.0 / 18.0	
POWER SOURCE	V/Ph/Hz		380-415/3/50		
REFRIGERANT TYPE			R407C		
INDOOR UNIT	CONTROL		DUCTED		
	AIR DISCHARGE OPERATION		WIRED CONTROL		
	AIR FLOW	l/s / CFM	5191 / 11000	5900 / 12500	
	EXTERNAL STATIC PRESSURE	Pa (in.wg.)	294 / 30	294 / 30	
	SOUND PRESSURE LEVEL	dBA	80	80	
	CONDENSATE DRAIN SIZE	mm	25.4		
	FAN	TYPE		CENTRIFUGAL	
		DRIVE		BELT DRIVE	
	FAN MOTOR	TYPE		INDUCTION MOTOR	
		INDEX OF PROTECTION (IP)		IP22	
INSULATION GRADE		F			
RATED INPUT POWER		W	5870	7500	
RATED RUNNING CURRENT		A	11.30	13.30	
MOTOR MAX OUTPUT		W	7500	7500	
COIL	TUBE	MATERIAL	COPPER		
		DIAMETER	9.52		
	FIN	MATERIAL	ALUMINIUM	ALUMINIUM	
		FACE AREA	3.02	3.02	
AIR QUALITY	FILTER	ROW	3 & 4	4	
		TYPE	SARANET		
	QUANTITY	pc	2 + 4	2 + 4	
OUTDOOR UNIT	AIR FLOW	l/s / CFM	20000	20000	
	SOUND PRESSURE LEVEL	dBA	80	80	
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1974 x 2252 x 3180	1974 x 2252 x 3180
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	2150 x 2300 x 3250	2150 x 2300 x 3250
	UNIT WEIGHT	kg	1510	1600	
	FAN	TYPE		PROPELLER	
		DRIVE		DIRECT	
	FAN MOTOR	TYPE		INDUCTION MOTOR	
		INDEX OF PROTECTION (IP)		IP55	
		INSULATION GRADE		F	
RATED INPUT POWER		W	4500	4500	
RATED RUNNING CURRENT		A	8.4	8.40	
MOTOR MAX OUTPUT		W	1250	1250	
COMPRESSOR	POLES		6	6	
	TYPE		SCROLL		
	OIL TYPE		MINERAL OIL		
	OIL AMOUNT	cm ³	6200 & 8000	8000	
RATED INPUT POWER	W	31500	36800		
RATED RUNNING CURRENT	A	54.50	62.00		
LOCKED ROTOR AMP.	A	175 & 215	215 & 215		
COIL	TUBE	MATERIAL	COPPER		
		DIAMETER	9.52		
	FIN	MATERIAL	ALUMINIUM	ALUMINIUM	
		FACE AREA	3.50	3.5	
CASING	COLOUR	ROW	2 & 3	3	
			LIGHT GREY		

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COOLING	HEATING
INDOOR: 27°C DB/ 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB/ 24°C WB	OUTDOOR: 8°C DB/ 6°C WB

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
 ■ Standard for User Setting