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BLU+ STAR

SINGLE ZONE

 **R-454B**
REFRIGERANT



 **HIGHEST COOLING
CAPABILITY**

 **OPTIMIZED ENERGY
EFFICIENCY**

 **LOW NOISE LEVEL**

SEER²



CONFORMS TO
UL STD. 1995
CERTIFIED TO
CSA STD. C22.2
NO. 236





INDOOR & OUTDOOR

IMSTAR120E
OMSTAR120E

IMSTAR121E
OMSTAR121E

IMSTAR181E
OMSTAR181E

IMSTAR241E
OMSTAR241E

POWER SUPPLY		V-HZ-PH	12K 110V 115V,60HZ,1PH	12K 220V 208/230V,60HZ,1PH	18K 220V 208/230V,60HZ,1PH	24K 220V 208/230V,60HZ,1PH
NATIONAL CERTIFICATION	VOLTAGE RANGE	V	103.5-126.5	187-253	187-253	187-253
	COOLING CAPACITY	BTU/H	12000	12000	18000	24000
	COOLING INPUT	W	960	984	1333	1846
	COOLING CURRENT	A	10.0	4.5	6.0	8.0
	SEER2	BTU/H/W	23.2	23.1	24.0	23.5
	EER2	BTU/H/W	12.5	12.2	13.5	13.0
	COOLING CAPACITY RANGE	BTU/H	2600-13000	2600-13700	3600-20000	9700-27000
	COOLING INPUT (RANGE)	W	180 ~ 1080	175 ~ 1210	355 ~ 1700	860 ~ 2550
	COOLING CURRENT(RANGE)	A	1.9 ~10.6	1.1 ~5.3	1.6 ~7.5	3.7 ~11.2
	HEATING CAPACITY	BTU/H	12000	12000	18000	25000
	HEATING INPUT	W	950	953	1385	2379
	HEATING CURRENT	A	10.3	4.3	6.2	10.4
	HSPF2-4	BTU/H/W	10.4	11.5	11.1	10.0
	HSPF2-5	BTU/H/W	7.6	8.5	8.3	7.7
	HEATING CAPACITY RANGE	BTU/H	4500-12800	4100-14400	7600-22000	11300-32700
	HEATING INPUT(RANGE)	W	280 ~980	225 ~1290	410 ~1750	645 ~3320
	HEATING CURRENT(RANGE)	A	1.5 ~10.8	1.2 ~5.7	2.2 ~7.7	3.5 ~14.5
	HEATING(H32) RATED CAPACITY	BTU/H	8800	9600	13000	19500
	HEATING(H32) COP	W/W	2.78	2.84	2.60	2.50
	HEATING(H42) RATED CAPACITY	BTU/H	7300	8600	13000	17800
	HEATING(H42) COP	W/W	2.20	2.35	2.35	2.15
	COOLING AT 109 F (43) RATED CAPACITY	BTU/H	11000	7900	14500	20700
	COOLING AT 5 F (-15)	BTU/H	12800	12700	20500	25600
	HEATING AT 17F (-8.33) RATED CAPACITY	BTU/H	8900	9900	14500	21300
	HEATING(H42) 5F(-15) RATED CAPACITY	BTU/H	7300	8600	13000	17800
	HEATING AT -4F (-20) RATED CAPACITY	BTU/H	5100	6700	9700	12300
	HEATING AT -13F (-25) RATED CAPACITY	BTU/H	3500	5300	7900	11000
	INDOOR MINIMUM CIRCUIT AMPACITY	A	3.0	3.0	3.0	3.0
	INDOOR MAX.FUSE	A	15	15	15	15
	OUTDOOR MINIMUM CIRCUIT AMPACITY	A	18.0	12.0	18.0	24.0
	OUTDOOR MAX.FUSE	A	20	15	20	25
	CONNECTION WIRING		14#X4	14#X4	14#X4	14#X4
	INDOOR INDOOR FAN MOTOR RLA	A	0.6	0.5	0.8	1.3
	OUTDOOR OUTDOOR FAN MOTOR RLA	A	0.6	0.6	0.9	1.0
	OUTDOOR COMPRESSOR RATED CURRENT(RLA)	A	14.0	7.3	10.0	15.4
	INDOOR INDOOR AIR FLOW (TURBO/HI/MI/LO/SI)	CFM	370.8 / 306.1 / 235.4 / 188.4 / 141.3	382.6 / 294.3 / 194.2 / 153.0 / /	759.3 / 500.3 / 441.4 / 370.8 / /	759.3 / 588.6 / 459.1 / 382.6 / /
	INDOOR NOISE LEVEL (TURBO/HI/MI/LO/SI)	DB(A)	44.0/40.5/35.0/26.5/17.5	46/43/37/20/19	54/45/40.0/26/20	54.0/48.5/43.5/27.5/20.5
	OUTDOOR NOISE LEVEL (HI)	DB(A)	53.0	54.0	59.0	60.0
	OUTDOOR OUTDOOR AIR FLOW	CFM	1235.3	1235.3	1764.7	2235.3
	N.A. DESIGN PRESSURE	PSI	550 / 340	550 / 340	550 / 340	550 / 340
BASIC PARAMETER(NC)	OUTDOOR REFRIGERANT TYPE		R454B	R454B	R454B	R454B
	OUTDOOR REFRIGERANT CHARGE	OZ	33.51	32.45	47.97	70.55
	OUTDOOR ADDITIONAL CHARGE PER FEET	OZ/FT	0.16	0.16	0.16	0.32
	OUTDOOR THROTTLE TYPE		EXV	EXV	EXV+THROTTLE VALVE	EXV+THROTTLE VALVE
	LIQUID SIDE	MM(INCH)	6.35MM(1/4IN)	6.35MM(1/4IN)	6.35MM(1/4IN)	9.52MM(3/8IN)
	GAS SIDE	MM(INCH)	9.52MM(3/8IN)	9.52MM(3/8IN)	12.7MM(1/2IN)	15.9MM(5/8IN)
	MAX. PIPING LENGTH	FT	82.00	82.00	98.40	164.00
	MAX. HEIGHT DIFFERENCE	FT	49.20	49.20	65.60	82.00
	INDOOR OPERATING TEMP. RANGE(COOLING)	F	60~90	60~90	60~90	60~90
	OUTDOOR OPERATING TEMP. RANGE(HEATING)	F	-13~75	-13~75	-13~75	-13~75
	INDOOR OPERATING TEMP. RANGE(HEATING)	F	32~86	32~86	32~86	32~86
	OUTDOOR OPERATING TEMP. RANGE(COOLING)	F	-13~122	-13~122	-13~122	-13~122
SIZE/WEIGHT	INDOOR ITEM NET/GROSS WEIGHT	LB	19.84/26.01	18.96/24.25	30.42/39.68	30.86/40.56
	INDOOR UNIT DIMENSION WXD XH	INCH	31.57 X 7.87 X 11.61	31.57 X 7.87 X 11.61	42.60 X 9.21 X 13.27	42.60 X 9.21 X 13.27
	INDOOR PACKAGE DIMENSION WXD XH	INCH	34.45 X 11.22 X 14.96	34.45 X 11.22 X 14.96	45.47 X 16.34 X 12.40	45.47 X 16.34 X 12.40
	OUTDOOR ITEM NET/GROSS WEIGHT	LB	64.59/70.11	62.17/67.68	92.59/100.31	122.13/132.28
	OUTDOOR UNIT DIMENSION WXD XH	INCH	30.12 X 11.93 X 21.85	30.12 X 11.93 X 21.85	35.04 X 13.46 X 26.50	37.24 X 16.14 X 31.89
ELECTRICAL MOTOR	INDOOR PACKAGE DIMENSION WXD XH	INCH	34.92 X 13.27 X 24.02	34.92 X 13.27 X 24.02	39.17 X 15.67 X 29.13	42.91 X 19.68 X 34.84
	INDOOR OUTPUT	W	20	13	58	58
OUTDOOR ELECTRICAL MOTOR	INDOOR MOTOR SPEED(HI/MI/LO)	R/MIN	1150/1000/800	1150/990/750	1070/922/848	1200/1080/600
	OUTDOOR OUTDOOR FAN MOTOR OUTPUT	W	34	34	80	120
COMPRESSOR	OUTDOOR OUTDOOR FAN MOTOR SPEED(HI/MID/LO)	R/MIN	850/700/600	800/700/600	780/700/550	810/700/450
	OUTDOOR COMPRESSOR TYPE		ROTARY	ROTARY	ROTARY	ROTARY
	OUTDOOR COMPRESSOR BRAND		GMCC	GMCC	GMCC	GMCC
	OUTDOOR COMPRESSOR CAPACITY	W	2035/3255	2035/3255	4315	4780/7600
	OUTDOOR COMPRESSOR INPUT POWER	W	325/826	325/826	1090	805/2045
	OUTDOOR COMPRESSOR RATED CURRENT	A	2.40/5.65	2.40/5.65	7.2	4.15/9.30

