

MULTI-B

MULTIZONE DUCTLESS HEAT PUMP

SMZ SERIES



R-454B INVERTER



PERFORMANCE IN EVERY SPACE

With a Multi-B ductless systems, you can connect up to six indoor units to a single outdoor unit to achieve an efficient, versatile, and tailored heating and cooling solution. It independently controls multiple zones through one integrated system, ensuring consistent comfort throughout the home with personalized zoning controls and optimal energy savings.

- **NEW R-454B HIGH-PERFORMANCE GAS**
- **GREATER RELIABILITY THANKS TO NEW GAS LEAK SENSOR**
- **NEW TECHNOLOGY AND MACHINE DESIGN**
MEET HIGH ENERGY EFFICIENCY STANDARDS
- **5 OPERATION MODES**
COOLING, HEATING, DEHUMIDIFYING, FAN AND AUTO
- **CAN CONNECT UP TO 6 INDOOR UNITS**

NOMINAL CAPACITY

- 18,000, 27,000, 36,000, 48,000, 55,000 BTU/hr

VOLTAGE

- 230/208V, 60 Hz, 1-phase

MANUFACTURING

Indoor unit/Wall-Mounted Split

- Plastic housing, standard white
- Evaporator fins covered with hydrophilic coating for improved corrosion resistance
- Washable filters

Indoor unit/Ceiling cassette

- Plastic housing, standard white
- Evaporator fins covered with hydrophilic coating for improved corrosion resistance.
- Washable filters
- Includes a remote control

Indoor unit/Ducted Fan Coil

- Evaporator fins covered with hydrophilic coating for improved corrosion resistance
- Washable filters
- Includes a wall controller

Outdoor unit

- Variable speed rotary compressor (INVERTER), with PCB control protection. Electronic expansion valve for precise control of refrigerant flow.
- Condenser fins covered with a hydrophilic coating for improved corrosion resistance.
- Quiet axial-flow fan
- Multi-hole pan with smart heater to prevent ice formation
- Compressor blanket and preheating technology

Connection piping

- Minimum piping length of 10 ft (3 m)
- Flared connections

INSTALLATION

Indoor unit

- High wall installation with ceiling clearance as low as 5 cm
- Dual side connection

Outdoor unit

- Installation on aluminum wall bracket or ground stand (optional)

CONTROL

- Wireless remote included with wall bracket
- Wi-Fi option available for the wall unit
- Set temperature: 16°C to 32°C (61°F to 90°F)
- Temperature display format: °C or °F
- Interface for wall unit only

WARRANTY

- 10-year basic warranty on parts and 10-year basic warranty on the compressor (labour not included).
- Labour warranty (sold separately) from the first to the tenth year on parts and labour, with condenser replacement if the compressor fails

GRANTS

- Qualifies for rebate programs*

COOLING	25 SEER2	-30°C / -22°F
HEATING	11 HSPF2	-30°C / -22°F

IDEAL FOR:

Dining room-kitchen, living room, family room, commercial building, office building, condo, restaurant.

*Please refer to www.stelpro.com for more details about provincial and federal rebate programs

FEATURES AND FUNCTIONS*



Wi-Fi

Control your comfort, anytime and anywhere using the Net Home Plus app. Available as an option. For more details, please refer to the accessories page.



Smart Pan Heater

Prevents ice formation in the base pan of the outdoor unit.



Compressor Blanket and Preheating Technology

Keeps the oil inside the compressor warm and prevents it from mixing with the refrigerant.



Anti-Corrosion Fin Coating

Condenser and evaporator fins are covered with a hydrophilic coating for greater corrosion resistance – a clear advantage for people living in coastal regions.



Refrigerant Leakage Detection

The indoor unit will display "EC" when the outdoor unit detects refrigerant leakage.



A2L Safety Sensor

Increased reliability thanks to our new A2L gas-leak sensor.



Smart Defrosting

Provides greater comfort and energy savings by eliminating unnecessary defrost cycles.



Smart Preheating

The system delays turning on the fan in heating mode to avoid blowing cold air out at startup.



Auto-Restart

In case of power failure, user selection and system parameters are stored in non-volatile memory. The system will automatically return to the last operating mode when power resumes.



Freeze Protection

For extended absences, the temperature setpoint can be lowered to 8 °C (46 °F) in heating mode to prevent freezing.



Auto-Clean

Keeps the indoor unit dry to prevent mold growth.



Turbo Mode

The unit operates at super high speed to achieve quick cooling or heating.



Timer

Allows you to program the time you want the unit to start and stop over a 24-hour period.



Sleep Mode

This function can be used to gradually increase or decrease room temperature, so you can save energy without affecting your sleep.



Silence Function

The unit will operate at low frequency and the fan at the lowest speed to reduce noise level.



Follow Me

With this function, the room temperature is read from the remote control, not from the indoor unit. This guarantees optimal comfort because the remote control is usually closer to you.

*Features and functions are applicable for the wall unit only. Options may vary depending on the selected options (cassette, fan coil). Please consult your representative for details.



TECHNICAL SPECIFICATIONS

PERFORMANCE

OUTDOOR UNIT ¹		SMZ2B1-H18A-O	SMZ3B1-H27A-O	SMZ4B1-H36A-O	SMZ5B1-H48A-O	SMZ5B1-H55A-O	
Voltage		V	230/208	230/208	230/208	230/208	
Cooling capacity	Nominal	W (BTU/hr)	5568 (19000)	7912 (27000)	10550 (36000)	13774 (47000)	14946 (51000)
	Min. - Max.	W (BTU/hr)	1581-8206 (5400-28000)	2110-10862 (7200-37000)	2638-12527 (9000-43000)	3517-16665 (12000-57000)	5568-17223 (19000-59000)
Heating capacity	Nominal	W (BTU/hr)	5861 (20000)	7913 (27000)	10551 (36000)	14360 (49000)	16119 (55000)
	Min. - Max.	W (BTU/hr)	1672-7913 (5700-27000)	2465-10551 (8400-36000)	3806-14360 (13000-49000)	5861-16665 (20000-57000)	8190-17223 (28000-59000)
Used cooling power input	Nominal	W	1265	2125	2750	3917	4250
	Min. - Max.	W	400-2250	500-3500	600-4000	800-5400	1200-7400
Used heating power input	Nominal	W	1465	2082	2638	3881	4605
	Min. - Max.	W	350-2300	500-3400	600-3750	800-5200	1200-7400
Cooling rated current		A	5.6	9.5	12	17.3	18.5
Heating rated current		A	6.5	9.1	11.5	17.3	20.1
MCA		A	17.5	30	37	37	39.5
Max. over-current protection (MOCP)		A	20	35	40	40	40
SEER2		-	25	23	23	23	22.2
HSPF2 IV		-	10.4	10.5	10.7	11	10.5
EER2		BTU/W	15	12.5	13	12	12
COP		W/W	4	3.8	4	3.7	3.5
AHRI number			216617670	216617673	216617676	216617679	216617682
ENERGY STAR			✓	✓	✓	✓	✓

OUTDOOR UNIT - CONDENSER

		SMZ2B1-H18A-O	SMZ3B1-H27A-O	SMZ4B1-H36A-O	SMZ5B1-H48A-O	SMZ5B1-H55A-O	
Air flow volume	CFM	2130.7	2148.4	3037.2	4502.8	4502.8	
Sound level	dB(A)	61.5	61	65	65	65	
Compressor power input	W	2045	2765	3265	3430	3430	
Compressor RLA	A	9.2	17	20.5	27	28	
Fan motor power output	W	120	120	250	85	85	
Fan motor RLA	A	1.2	1.3	2.6	2.5	2.5	
Refrigerant volume (R-454B)	oz. (g)	78.31 (2220)	120.63 (3418)	134.04 (3800)	151.68 (4294)	151.68 (4294)	
Net weight	lb (kg)	137 (62.3)	168 (76.4)	212 (96.1)	246 (112)	246 (112)	
Operating ambient temperature	Cooling	°C (°F)	-30 to 50 (-22 to 122)				
	Heating	°C (°F)	-30 to 24 (-22 to 75)				

CONNECTION PIPING/REFRIGERANT

Pre-charge length	ft. (m)	24.6 (7.5)	24.6 (7.5)	24.6 (7.5)	24.6 (7.5)	24.6 (7.5)
Additional refrigerant charge	oz./ft. (g/m)	0.16 (15)	0.16 (15)	0.16 (15)	0.16 (15)	0.16 (15)
Liquid pipe outer diameter	in.	3 x 1/4	4 x 1/4	5 x 1/4	6 x 1/4	6 x 1/4
Gas pipe outer diameter	in.	3 x 3/8	3 x 3/8 + 1 x 1/2	3 x 3/8 + 2 x 1/2	4 x 3/8 + 2 x 1/2	4 x 3/8 + 2 x 1/2
Maximum height difference	ft. (m)	49.2 (15)	49.2 (15)	49.2 (15)	49.2 (15)	49.2 (15)
Maximum total length	ft. (m)	196.8 (60)	262.4 (80)	262.4 (80)	262.4 (80)	262.4 (80)

¹ Indoor unit and 1 outdoor unit. Note that each unit is individually packaged.

INDOOR UNIT - WALL-MOUNTED SPLIT

			SEP-B-H09A-I	SEP-B-H12A-I	SEP-B-H18A-I	SEP-B-H24A-I
Dehumidification		pt/hr (l/hr)	1.9 (0.9)	2.54 (1.2)	3.17 (1.5)	4.65 (2.2)
Air flow volume	UH / H / M / L	cfm	441 / 324 / 230 / 177	441 / 324 / 230 / 177	636 / 500 / 359 / 294	812 / 618 / 412 / 318
Sound level	UH / H / M / L / S ²	dB (A)	47 / 38 / 33 / 21 / 20	47 / 37 / 33 / 22 / 20	50 / 45 / 38 / 32 / 20	55 / 44 / 39 / 27 / 16
Fan motor power output		W	20	20	30	58
Fan motor RLA		A	0.5	0.5	0.8	1.3
Net weight		lb (kg)	23.3 (10.6)	22.93 (10.4)	27.34 (12.4)	43.65 (19.8)
Liquid pipe outer diameter		in.	1/4	1/4	1/4	3/8
Gas pipe outer diameter		in.	3/8	3/8	1/2	5/8

²Cross-Flow Fan Speeds: (UH) Ultra High (100%) / (H) High (80%) / (M) Medium (60%) / (L) Low (40%).

INDOOR UNIT - CEILING CASSETTE

			SICB1-H09A-I	SICB1-H12A-I	SICB1-H18A-I	SICB1-H24A-I
Cooling capacity	Nominal	W (BTU/hr)	2638 (9000)	3517 (12000)	4689 (16000)	6887 (23500)
Heating capacity	Nominal	W (BTU/hr)	2931 (10000)	3517 (12000)	5568 (19000)	7327 (25000)
Dehumidification		pt/hr (l/hr)	1.19	1.96	2.71	3.19
Air flow volume	UH / H / M / L	cfm	344 / 288 / 231 / 201 / 122	419 / 350 / 256 / 216 / 135	706 / 618 / 530 / 441 / --	854 / 706 / 618 / 500 / --
Sound level	UH / H / M / L / S ²	dB (A)	30 / 29 / 28 / 26	33 / 31 / 29 / 26	36 / 34 / 32 / 28	40 / 37 / 35 / 30
Net weight		lb (kg)	35.27 (16)	35.27 (16)	35.27 (16)	47.18 (21.4)
Liquid pipe outer diameter		in.	1/4	1/4	1/4	3/8
Gas pipe outer diameter		in.	3/8	3/8	1/2	5/8

INDOOR UNIT - DUCTED FAN COIL

			SFCB1-H09A-I	SFCB1-H12A-I	SFCB1-H18A-I	SFCB1-H24A-I
Cooling capacity	Nominal	W (BTU/hr)	2638 (9000)	3517 (12000)	5129 (17500)	7034 (24000)
Heating capacity	Nominal	W (BTU/hr)	2901 (9900)	3517 (12000)	5715 (19500)	7620 (26000)
Dehumidification		pt/hr (l/hr)	1.46	2.94	2.94	4.29
Air flow volume	UH / H / M / L	cfm	344 / 288 / 231 / 201 / 122	419 / 350 / 256 / 216 / 135	706 / 618 / 530 / 441 / --	854 / 706 / 618 / 500 / --
Sound level	UH / H / M / L / S ²	dB (A)	30 / 29 / 28 / 26	33 / 31 / 29 / 26	36 / 34 / 32 / 28	40 / 37 / 35 / 30
Net weight		lb (kg)	64 (29)	64 (29)	80 (36.3)	80.5 (36.5)
Liquid pipe outer diameter		in.	1/4	1/4	1/4	3/8
Gas pipe outer diameter		in.	3/8	3/8	1/2	5/8

ACCESSORIES

PRODUCT	DESCRIPTION
SICGA	Grille for SICB1-H09A-I, SICB1-H12A-I, SICB1-H18A-I ceiling cassette
SICGB	Grille for SICB1-H24A-I ceiling cassette

COMBINATION TABLE

OUTDOOR UNIT	1 INDOOR UNIT	2 INDOOR UNITS	3 INDOOR UNITS	4 INDOOR UNITS	5 INDOOR UNITS	6 INDOOR UNITS
SMZ2B1-H18A-O	12	09+09	-	-	-	-
	18	09+12	-	-	-	-
	-	12+12	-	-	-	-
SMZ3B1-H27A-O	18	09+09	09+09+09	09+09+09+09	-	-
	24	09+12	09+09+12	-	-	-
	-	09+18	09+09+18	-	-	-
	-	09+24	09+12+12	-	-	-
	-	12+12	-	-	-	-
	-	12+18	-	-	-	-
	-	12+24	-	-	-	-
SMZ4B1-H36A-O	24	09+09	09+09+09	09+09+09+09	-	-
	-	09+12	09+09+12	09+09+09+12	-	-
	-	09+18	09+09+18	09+09+09+18	-	-
	-	09+24	09+09+24	09+09+12+12	-	-
	-	12+12	09+12+12	09+09+12+18	-	-
	-	12+18	09+12+18	09+12+12+12	-	-
	-	12+24	09+12+24	12+12+12+12	-	-
	-	18+18	09+18+18	-	-	-
	-	18+24	12+12+12	-	-	-
	-	24+24	12+12+18	-	-	-
	-	-	12+12+24	-	-	-
SMZ5B1-H48A-O	-	09+18	09+09+09	09+09+09+09	09+09+09+09+09	09+09+09+09+09+09
	-	09+24	09+09+12	09+09+09+12	09+09+09+09+12	09+09+09+09+09+12
	-	12+12	09+09+18	09+09+09+18	09+09+09+09+18	09+09+09+09+09+18
	-	12+18	09+09+24	09+09+09+24	09+09+09+09+24	09+09+09+12+12
	-	12+24	09+12+12	09+09+12+12	09+09+09+12+12	09+09+09+12+12+12
	-	18+18	09+12+18	09+09+12+18	09+09+09+12+18	-
	-	18+24	09+12+24	09+09+12+24	09+09+09+12+24	-
	-	24+24	09+18+18	09+09+18+18	09+09+09+18+18	-
	-	-	09+18+24	09+09+18+24	09+09+12+12+12	-
	-	-	12+12+12	09+12+12+12	-	-
	-	-	12+12+18	09+12+12+18	-	-
	-	-	12+12+24	09+12+12+24	-	-
	-	-	12+18+18	09+12+18+18	-	-
	-	-	12+18+24	09+12+18+24	-	-
	-	-	18+18+18	09+18+18+18	-	-
SMZ5B1-H55A-O	-	09+18	09+09+09	09+09+09+09	09+09+09+09+09	09+09+09+09+09+09
	-	09+24	09+09+12	09+09+09+12	09+09+09+09+12	09+09+09+09+09+12
	-	12+12	09+09+18	09+09+09+18	09+09+09+09+18	09+09+09+09+09+18
	-	12+18	09+09+24	09+09+09+24	09+09+09+09+24	09+09+09+09+09+24
	-	12+24	09+12+12	09+09+12+12	09+09+09+12+12	09+09+09+09+12+12
	-	18+18	09+12+18	09+09+12+18	09+09+09+12+18	09+09+09+09+12+18
	-	18+24	09+12+24	09+09+12+24	09+09+09+12+24	09+09+09+09+12+24
	-	24+24	09+18+18	09+09+18+18	09+09+09+18+18	09+09+09+12+12+12
	-	-	09+18+24	09+09+18+24	09+09+09+18+24	09+09+09+12+12+18
	-	-	12+12+12	09+12+12+12	09+09+12+12+12	09+09+12+12+12+12
	-	-	12+12+18	09+12+12+18	09+09+12+12+18	09+09+12+12+12+18
	-	-	12+12+24	09+12+12+24	09+09+12+12+24	09+09+12+12+12+24
	-	-	12+18+18	09+12+18+18	09+09+12+18+18	12+12+12+12+12+12
	-	-	12+18+24	09+12+18+24	09+09+12+18+24	-
	-	-	18+18+18	09+18+18+18	-	-
-	-	-	12+12+12+12	-	-	
-	-	-	12+12+12+18	-	-	
-	-	-	12+12+12+24	-	-	
-	-	-	12+12+18+18	-	-	
-	-	-	12+12+18+24	-	-	
-	-	-	12+18+18+18	-	-	

The combinations in red represent configurations that offer 100% system performance in heating mode. It is important that the total capacity of the indoor units does not exceed 133% of the outdoor unit's capacity. The combination table is valid for combinations of ceiling cassettes and ductable units.

TO ORDER

- Select the outdoor unit based on the required capacity of the system.
- Select the appropriate combination of indoor units by referring to the combination table below. The combination can be made with wall units, ceiling cassettes, or ductable fan coil.

CODE	BTU/hr
09	9 000 BTU/hr
12	12 000 BTU/hr
18	18 000 BTU/hr
24	24 000 BTU/hr

EXAMPLE

Outdoor unit required: SMZB1-H55A-O

Combination of indoor units selected: 09 + 09 + 12 + 12 + 18

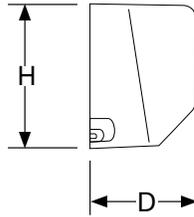


TECHNICAL DRAWINGS

INDOOR UNIT / WALL-MOUNTED SPLIT



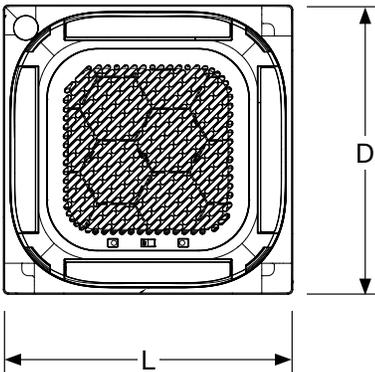
FRONT



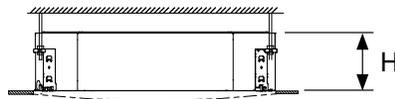
SIDE

MODEL CODE	L		H		D	
	MM	IN.	MM	IN.	MM	IN.
SEPB-H09A-I	857	33 3/4	300	9 1/8	231	9 1/8
SEPB-H12A-I	857	33 3/4	300	9 1/8	231	9 1/8
SEPB-H18A-I	1024	40 1/4	321	12 5/8	246	9 3/4
SEPB-H24A-I	1197	47 1/8	372	14 5/8	280	11

INDOOR UNIT / CEILING CASSETTE



FRONT



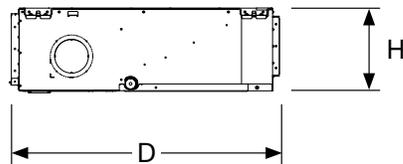
SIDE

MODEL CODE	L		H		D	
	MM	IN.	MM	IN.	MM	IN.
SICB1-H09A-I	570	22 7/16	245	9 5/8	570	22 7/16
SICB1-H12A-I	570	22 7/16	245	9 5/8	570	22 7/16
SICB1-H18A-I	570	22 7/16	245	9 5/8	570	22 7/16
SICB1-H24A-I	830	32 11/16	205	8 1/16	830	32 11/16

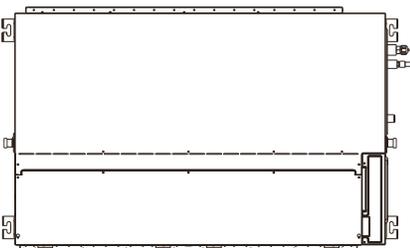
INDOOR UNIT / DUCTED FAN COIL



FRONT



SIDE

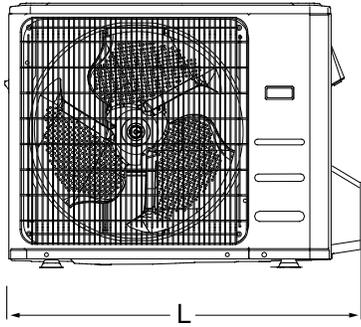


TOP

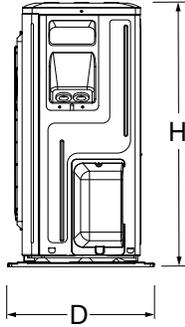
MODEL CODE	L		H		D	
	MM	IN.	MM	IN.	MM	IN.
SFCB1-H09A-I	700	27 1/2	244	9 5/8	750	29 17/32
SFCB1-H12A-I	700	27 1/2	244	9 5/8	750	29 17/32
SFCB1-H18A-I	1000	39 3/8	244	9 5/8	750	29 17/32
SFCB1-H24A-I	1000	39 3/8	244	9 5/8	750	29 17/32

OUTDOOR UNIT

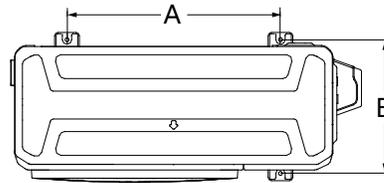
18 000 - 27 000 BTU



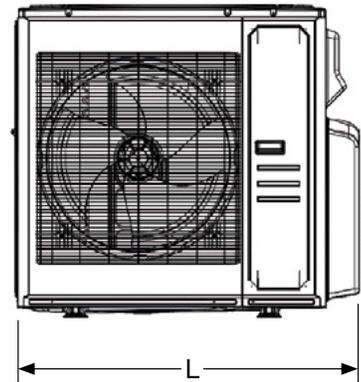
FRONT



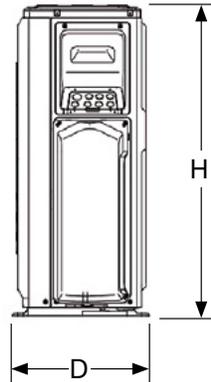
SIDE



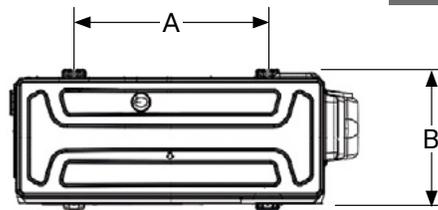
TOP



FRONT

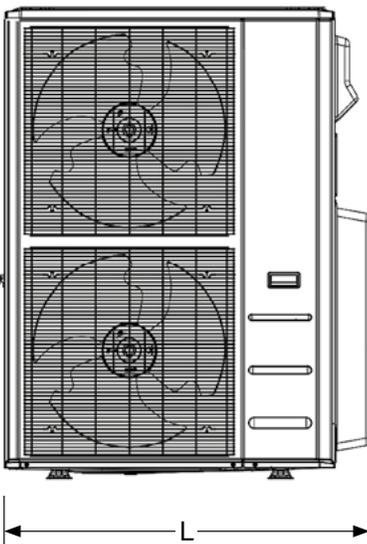


SIDE

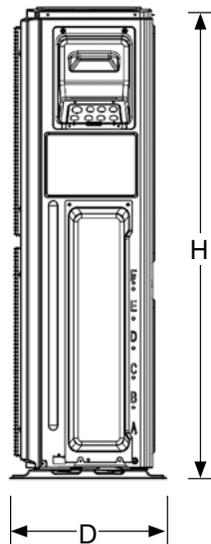


TOP

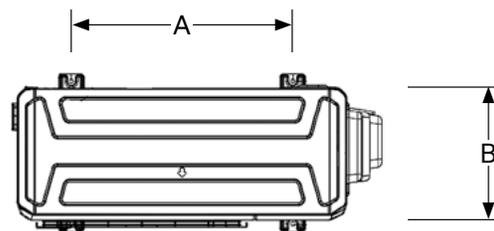
36 000 BTU



FRONT



SIDE



TOP

48 000 - 55 000 BTU

MODEL CODE	L		H		D		A		B	
	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.
SMZ2B1-H18A-O	1034	40 3/4	810	31 7/8	455	17 7/8	673	26 1/2	403	15 7/8
SMZ3B1-H27A-O	1034	40 3/4	810	31 7/8	455	17 7/8	673	26 1/2	403	15 7/8
SMZ4B1-H36A-O	1090	42 15/16	975	38 3/8	440	17 3/8	616	24 1/2	397	15 5/8
SMZ5B1-H48A-O	1060	41 3/4	1333	52 1/2	448	17 5/8	634	25	405	15 15/16
SMZ5B1-H55A-O	1060	41 3/4	1333	52 1/2	448	17 5/8	634	25	405	15 15/16