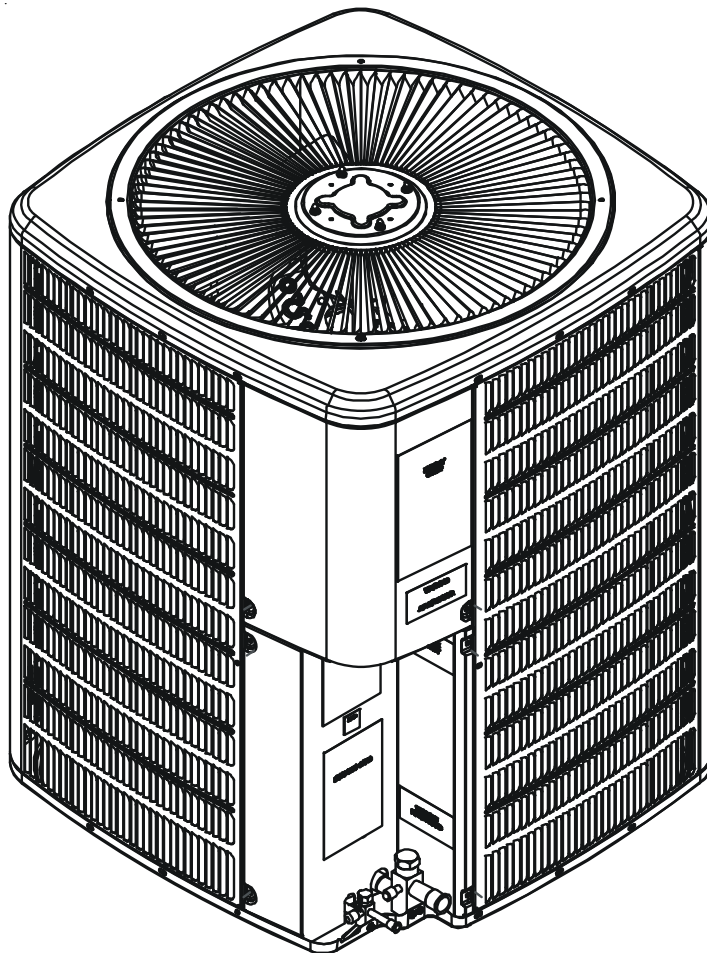


Goodman[®]

TECHNICAL MANUAL

GSZ/VSZ 13 SEER Split System Heat Pumps

- Refer to Service Manual RS6200006 for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.
- Models listed on page 3.

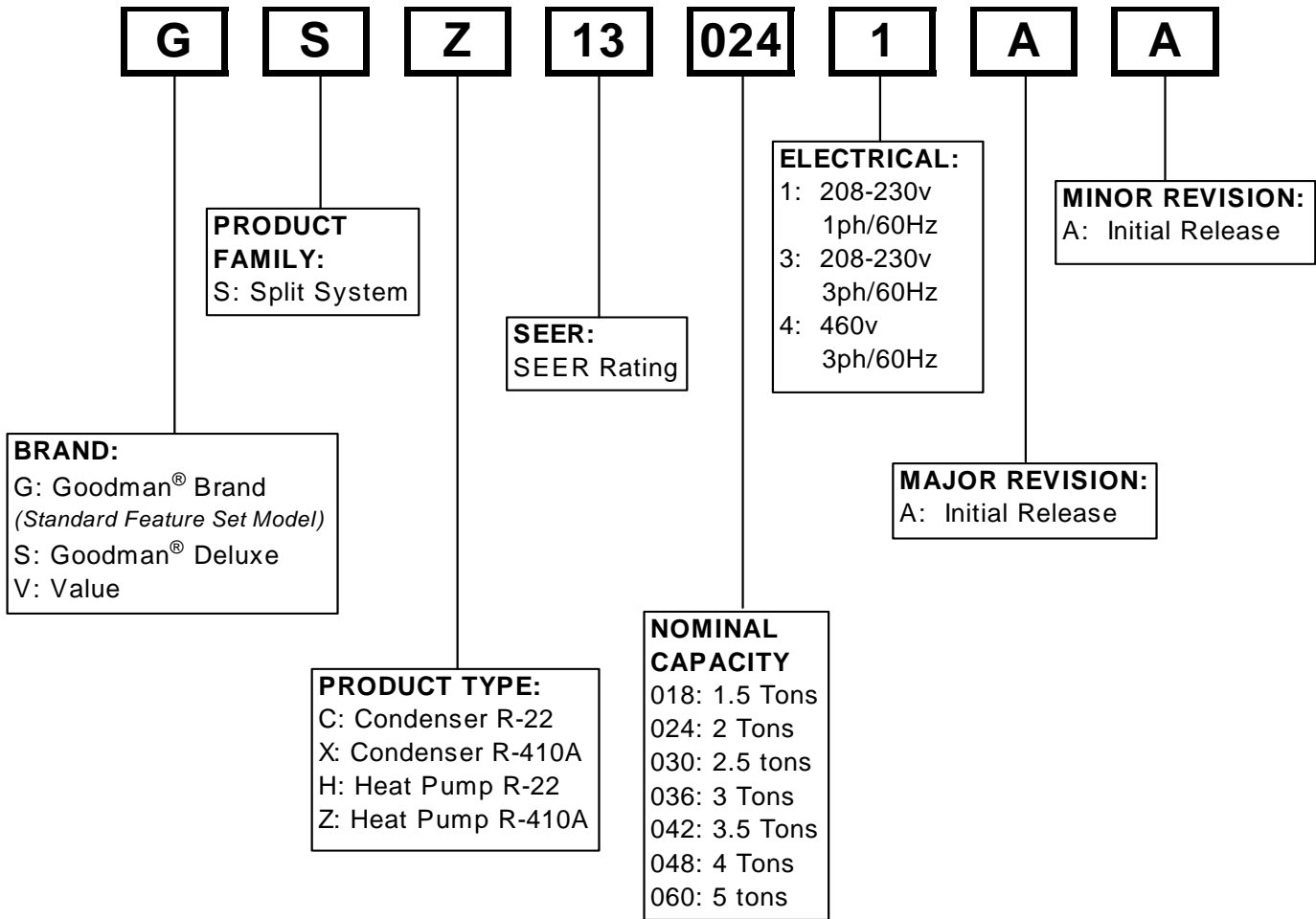


This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures or services performed by an unqualified person.

RT6212006r13
February 2013

PRODUCT IDENTIFICATION

The model number is used for positive identification of component parts used in manufacturing. Please use this number when requesting service or parts information.



WARNING

HIGH VOLTAGE!

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

WARNING

Goodman will not be responsible for any injury or property damage arising from improper service or service procedures. If you install or perform service on this unit, you assume responsibility for any personal injury or property damage which may result. Many jurisdictions require a license to install or service heating and air conditioning equipment.

WARNING

Installation and repair of this unit should be performed ONLY by individuals meeting (at a minimum) the requirements of an "entry level technician", as specified by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI). Attempting to install or repair this unit without such background may result in product damage, personal injury or death.

PRODUCT IDENTIFICATION

The model number is used for positive identification of component parts used in manufacturing. Please use this number when requesting service or parts information.

GSZ130181A*	VSZ130181A*
GSZ130241A*	VSZ130241A*
GSZ130301A*	VSZ130301A*
GSZ130361A*	VSZ130361A*
GSZ130421A*	VSZ130421A*
GSZ130481A*	VSZ130481A*
GSZ130601A*	VSZ130601A*
GSZ130241B*	VSZ130241B*
GSZ130361B*	VSZ130361B*
GSZ130241C*	VSZ130241C*
GSZ130363A*	
GSZ130483A*	
GSZ130484A*	
GSZ130603A*	
GSZ130604A*	

* Indicates minor revision & is not used for order entry or inventory management



The United States Environmental Protection Agency (“EPA”) has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary by jurisdiction. Should questions arise, contact your local EPA office.



Do not connect or use any device that is not design certified by Goodman for use with this unit. Serious property damage, personal injury, reduced unit performance and/or hazardous conditions may result from the use of such non-approved devices.



To prevent the risk of property damage, personal injury, or death, do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.

PRODUCT DESIGN

GSZ/VSZ13 models are available in 1 1/2 through 5 ton sizes and use R-410A refrigerant. They are designed for 208/230 volt single phase applications.

Select GSZ13 models are available in 208/230 and 460 volt 3-phase applications. These models use R-410A refrigerant.

The condenser air is pulled through the condenser coil by a direct drive propeller fan. This condenser air is then discharged out of the top of the cabinet.

These units are designed for free air discharge, so no additional resistance like duct work shall be attached.

The suction and liquid line connections on present models are of the sweat type for field piping with refrigerant type copper. Front seating valves are factory installed to accept the field run copper. The total refrigerant charge for a normal installation is factory installed in the condensing unit. GSZ units are charged for the matching evaporator coil and a 15 foot refrigerant line set.

Systems should be properly sized by heat gain and loss calculations made according to methods of the Air Conditioning Contractors Association (ACCA) or equivalent. It is the contractors responsibility to ensure the system has adequate capacity to heat or cool the conditioned space.

GSZ/VSZ models use high-efficiency Copeland® scroll "Ultratech" compressors which are specifically designed for R-410A refrigerant. There are a number of design characteristics which are different from the scroll compared to the traditional reciprocating compressor.

"Ultratech" Series scroll compressors with Copeland® ComfortAlert diagnostics will not have a discharge thermostat. Some of the early model scroll compressors required discharge thermostats.

Due to their design Scroll compressors are inherently more tolerant of small quantities of liquid refrigerant.

NOTE: Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued floodback or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.

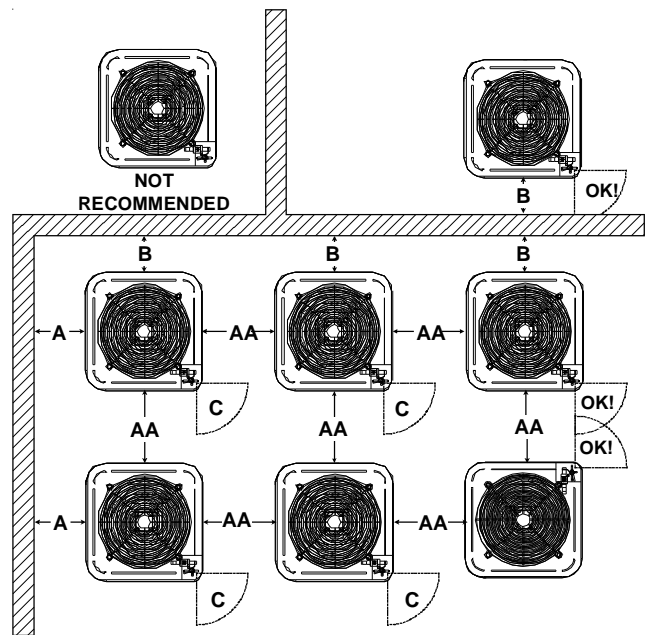
"Ultratech" Series scroll compressors use "POE" or polyolester oil which is **NOT** compatible with mineral oil based lubricants like 3GS. "POE" oil must be used if additional oil is required.

NOTE: This unit cannot be completely enclosed. At least one side must be unrestricted.

These clearances will help avoid air recirculation. If installing two or more units at the same location, allow at least 24 inches between units. If only one side is restricted (for example, against the outside wall of a house), the unit may be placed as close as 8" to that one wall.

DO NOT locate the unit:

- * Directly under a vent termination for a gas appliance.
- * Within 3 feet of a clothes drier vent
- * Where the refreezing of defrost water would create a hazard
- * Where water may rise into the unit.



Minimum Airflow Clearance				
Model Type	A	B	C	AA
Residential	10"	10"	18"	20"
Light Commercial	12"	12"	18"	24"

WARNING

To avoid possible injury, explosion or death, practice safe handling of refrigerants.

Operating pressures and amp draws may differ from standard reciprocating and/or scroll compressors. This information may be found in the "Cooling Performance Data" section.

This unit is for outdoor installation only. Refer to minimum figure for clearances from the sides of the unit to full walls and other objects.

PRODUCT DESIGN

Product Dimensions

Model	Dimensions - W x D x H
G/VSZ130181A*	26 x 26 x 32¼
G/VSZ130241A*	26 x 26 x 32¼
G/VSZ130241B*	26 x 26 x 32½
G/VSZ130301A*	26 x 26 x 32¼
G/VSZ130361A* GSZ130363A*	29 x 29 x 38¼
G/VSZ130361B*	29 x 29 x 32½
G/VSZ130421A*	29 x 29 x 38¼
G/VSZ130481A* GSZ130483A* GSZ130484A*	29 x 29 x 34¼
G/VSZ130601A* GSZ130603A* GSZ130604A*	35½ x 35½ x 34¼

HEAT PUMP SPECIFICATIONS

G/VSZ130[18-60]1A*

	SZ130181A	*SZ130241A*	*SZ130301A*	*SZ130361A*	*SZ130421A	*SZ130481A*	*SZ130601A*
Nominal Capacities							
Cooling Capacity, BTUH	18,000	24,000	30,000	36,000	42,000	48,000	60,000
Heating Capacity, BTUH	17,000	23,000	26,400	34,000	40,500	44,000	58,000
Compressor							
R.L. Amps	9.0	12.8	14.1	16.6	17.9	19.8	26.4
L.R. Amps	48.0	58.3	73.0	79.0	112.0	109.0	134.0
Low Pressure Switch							
Open	22 PSIG	22 PSIG	22 PSIG	22 PSIG	22 PSIG	22 PSIG	22 PSIG
Close	50 PSIG	50 PSIG	50 PSIG	50 PSIG	50 PSIG	50 PSIG	50 PSIG
High Pressure Switch							
Open	610 PSIG	610 PSIG	610 PSIG	610 PSIG	610 PSIG	610 PSIG	610 PSIG
Close	420 PSIG	420 PSIG	420 PSIG	420 PSIG	420 PSIG	420 PSIG	420 PSIG
Condenser Fan Motor							
Horsepower	1/6	1/6	1/6	1/4	1/4	1/4	1/4
F.L. Amps	1.10	1.10	1.10	1.50	1.50	1.50	1.50
Liquid Line, Inches O.D.*	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction Line, Inches O.D.*	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"
Refrigerant Charge	122.0	122.0	127.0	171.0	174.0	222.0	245.0
Power Supply							
Minimum Circuit Ampacity ⁽¹⁾	12.3	17.1	18.7	22.3	23.9	26.3	34.5
Maximum Overcurrent Device ⁽²⁾	20	25	30	35	40	45	60
Electrical Conduit Size							
Power Supply (Inches)	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4
Approximate Shipping Weight	198	198	202	232	235	240	266

* Up to 24' in equivalent line length

⁽¹⁾ Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes.

⁽²⁾ Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

NOTES:

- Always check the S & R plate for electrical data on the unit being installed.
- Installer will need to supply 7/8" to 1-1/8" adapters for suction line connections (4 & 5 ton units).
- Installer will need to supply 3/4" to 7/8" adapters for suction line connections (3 ton unit).
- Unit is charged with refrigerant for 15' of 3/8" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.
- Installation of these units requires the specified TXV Kit to be installed on the indoor coil. THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT, NOT THE INDOOR COIL.

NOTE: This data is provided as a guide, it is important to electrically connect the unit and properly size fuses/circuit breakers and wires in accordance with all national and/or local electrical codes. Use copper wire only.

Unit specifications are subject to change without notice. **ALWAYS** refer to the unit's serial plate for the most up-to-date general and electrical information.

HEAT PUMP SPECIFICATIONS

GSZ130[18, 42-60]1AC/AD; GSZ130301AD; GSZ130421AE

VSZ130[18, 42-60]1AB/AD/AC; VSZ130301AC/AE

	GSZ130181AC VSZ130181AB	GSZ130181AD VSZ130181AC	GSZ130301AD VSZ130301AC	GSZ130301AE VSZ130301AD	GSZ130421AC VSZ130421AB	GSZ130421AE VSZ130421AD	GSZ130481AC VSZ130481AB VSZ130481AD	GSZ130601AC VSZ130601AB VSZ130601AC	GSZ130421AF VSZ130421AE
Nominal Capacities									
Cooling Capacity, BTUH	18,000	18,000	30,000	30,000	42,000	42,000	48,000	60,000	42,000
Heating Capacity, BTUH	17,000	17,000	30,000	26,400	40,500	40,500	44,000	58,000	40,500
Compressor									
R.L. Amps	9.0	9.0	14.1	14.1	17.9	17.9	19.9	26.4	17.9
L.R. Amps	48.0	48.0	73.0	73.0	112.0	112.0	109.0	134.0	112.0
Low Pressure Switch									
Open	22 PSIG	22 PSIG	22 PSIG	22 PSIG	22 PSIG	22 PSIG	22 PSIG	22 PSIG	22 PSIG
Close	50 PSIG	50 PSIG	50 PSIG	50 PSIG	50 PSIG	50 PSIG	50 PSIG	50 PSIG	50 PSIG
High Pressure Switch									
Open	610 PSIG	610 PSIG	610 PSIG	610 PSIG	610 PSIG	610 PSIG	610 PSIG	610 PSIG	610 PSIG
Close	420 PSIG	420 PSIG	420 PSIG	420 PSIG	420 PSIG	420 PSIG	420 PSIG	420 PSIG	420 PSIG
Condenser Fan Motor									
Horsepower	1/6	1/8	1/6	1/8	1/4	1/4	1/4	1/4	1/4
F.L. Amps	1.10	0.70	1.10	0.70	1.50	1.50	1.50	1.50	1.50
Liquid Line, Inches O.D.*	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction Line, Inches O.D.*	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	7/8"	7/8"
Refrigerant Charge	119.0	121.0	108.0	108.0	171.0	156.0	222.0	240.0	166.0
Power Supply	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
Minimum Circuit Ampacity ⁽¹⁾	12.4	11.9	18.7	18.3	23.9	23.9	26.4	34.5	23.9
Maximum Overcurrent Device ⁽²⁾	20	20	30	30	40	40	45	60	40
Electrical Conduit Size									
Power Supply (Inches)	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4
Approximate Shipping Weight	198	159	169	202	235	235	240	266	235

* Up to 24' in equivalent line length

⁽¹⁾ Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes.

⁽²⁾ Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

NOTES:

- Always check the S & R plate for electrical data on the unit being installed.
- Installer will need to supply 7/8" to 1-1/8" adapters for suction line connections (4 & 5 ton units).
- Installer will need to supply 3/4" to 7/8" adapters for suction line connections (3 ton unit).
- Unit is charged with refrigerant for 15' of 3/8" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.
- Installation of these units requires the specified TXV Kit to be installed on the indoor coil. THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT, NOT THE INDOOR COIL.

NOTE: This data is provided as a guide, it is important to electrically connect the unit and properly size fuses/circuit breakers and wires in accordance with all national and/or local electrical codes. Use copper wire only.

Unit specifications are subject to change without notice. **ALWAYS** refer to the unit's serial plate for the most up-to-date general and electrical information.

HEAT PUMP SPECIFICATIONS

G/VSZ130[24,36]B*

	GSZ130241B* VSZ130241B*	VSZ130241BC	GSZ130361B* VSZ130361B*	GSZ130361B* VSZ130361B*	GSZ130361BC VSZ130361BC
Nominal Capacities					
Cooling Capacity, BTUH	24,000	24,000	36,000	36,000	36,000
Heating Capacity, BTUH	23,000	23,000	34,000	34,000	34,000
Compressor					
R.L. Amps	12.8	12.8	16.7	16.7	16.7
L.R. Amps	58.3	58.3	79.0	79.0	79.0
Low Pressure Switch					
Open	22 PSIG	22 PSIG	22 PSIG	22 PSIG	22 PSIG
Close	50 PSIG	50 PSIG	50 PSIG	50 PSIG	50 PSIG
High Pressure Switch					
Open	610 PSIG	610 PSIG	610 PSIG	610 PSIG	610 PSIG
Close	420 PSIG	420 PSIG	420 PSIG	420 PSIG	420 PSIG
Condenser Fan Motor					
Horsepower	1/6	1/8	1/4	1/4	1/4
F.L. Amps	1.10	0.7	1.50	1.50	1.50
Liquid Line, Inches O.D.*	3/8"	3/8"	3/8"	3/8"	3/8"
Suction Line, Inches O.D.*	3/4"	3/4"	3/4"	3/4"	3/4"
Refrigerant Charge	113.0	113.0	131.0	128.0	100.0
Power Supply	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
Minimum Circuit Ampacity ⁽¹⁾	17.1	16.7	22.3	22.3	22.4
Maximum Overcurrent Device ⁽²⁾	25	25	35	35	35
Electrical Conduit Size					
Power Supply (Inches)	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4
Approximate Shipping Weight	198	198	232	232	232

⁽¹⁾ Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes.

⁽²⁾ Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

⁽³⁾ Tested and rated in accordance with AHRI Standard 210/240

NOTES:

- Always check the S & R plate for electrical data on the unit being installed.
- Installer will need to supply 7/8" to 1-1/8" adapters for suction line connections (4 & 5 ton units).
- Installer will need to supply 3/4" to 7/8" adapters for suction line connections (3 ton unit).
- Unit is charged with refrigerant for 15' of 3/8" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.
- Installation of these units requires the specified TXV Kit to be installed on the indoor coil. THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT, NOT THE INDOOR COIL.

NOTE: This data is provided as a guide, it is important to electrically connect the unit and properly size fuses/circuit breakers and wires in accordance with all national and/or local electrical codes. Use copper wire only.

Unit specifications are subject to change without notice. **ALWAYS** refer to the unit's serial plate for the most up-to-date general and electrical information.

HEAT PUMP SPECIFICATIONS

G/VSZ13024C*

	GSZ130241C* VSZ130241C*
Nominal Capacities	
Cooling Capacity, BTUH	24,000
Heating Capacity, BTUH	24,000
Compressor	
R.L. Amps	13.5
L.R. Amps	58.3
Low Pressure Switch	
Open	22 PSIG
Close	50 PSIG
High Pressure Switch	
Open	610 PSIG
Close	420 PSIG
Condenser Fan Motor	
Horsepower	1/8
F.L. Amps	0.70
Liquid Line, Inches O.D.*	3/8"
Suction Line, Inches O.D.*	3/4"
Refrigerant Charge	119.0
Power Supply	208/230-60-1
Minimum Circuit Ampacity ⁽¹⁾	17.5
Maximum Overcurrent Device ⁽²⁾	30
Electrical Conduit Size	
Power Supply (Inches)	1/2 or 3/4
Approximate Shipping Weight	159

NOTE: This data is provided as a guide, it is important to electrically connect the unit and properly size fuses/circuit breakers and wires in accordance with all national and/or local electrical codes. Use copper wire only.

Unit specifications are subject to change without notice. **ALWAYS** refer to the unit's serial plate for the most up-to-date general and electrical information.

HEAT PUMP SPECIFICATIONS

GSZ130[36-60][3,4]A*

	GSZ130363A*	GSZ130483A*	GSZ130484A*	GSZ130603A*	GSZ130604A*
Nominal Capacities					
Cooling Capacity, BTUH	36,000	48,000	48,000	60,000	60,000
Heating Capacity, BTUH	34,000	44,000	44,000	58,000	58,000
Decibels	74	76	76	75	75
Compressor					
R.L. Amps	10.4	13.1	6.1	16.0	7.8
L.R. Amps	73.0	83.1	41.0	110.0	52.0
Type	Scroll	Scroll	Scroll	Scroll	Scroll
Condenser Fan Motor					
Horsepower	1/4	1/4	1/4	1/4	1/4
F.L. Amps	1.50	1.50	0.80	1.50	0.80
Refrigerant System					
Liquid Line, Inches O.D.* ³	3/8"	3/8"	3/8"	3/8"	3/8"
Suction Line, Inches O.D.* ³	7/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"
Liquid Valve Connection, Inches O.D.*	3/8"	3/8"	3/8"	3/8"	3/8"
Suction Valve Connection, Inches O.D.*	3/4"	7/8"	7/8"	7/8"	7/8"
Refrigerant Charge	171.0	222.0	222.0	245.0	245.0
Piston Size	0.068	0.078	0.078	0.088	0.088
Power Supply	208/230-60-3	208/230-60-3	460-60-3	208/230-60-3	460-60-3
Minimum Circuit Ampacity ⁽¹⁾	14.5	17.9	8.4	21.5	10.6
Maximum Overcurrent Device ⁽²⁾	20	30	15	35	15
Min / Max Volts	197 / 253	197 / 253	414 / 506	197 / 253	414 / 506
Electrical Conduit Size					
Power Supply (Inches)	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4
Approximate Shipping Weight	232	235	234	262	261

⁽¹⁾ Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes.

⁽²⁾ Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

⁽³⁾ Tested and rated in accordance with AHRI Standard 210/240

NOTES:

- Always check the S & R plate for electrical data on the unit being installed.
- Installer will need to supply 7/8" to 1-1/8" adapters for suction line connections (4 & 5 ton units).
- Installer will need to supply 3/4" to 7/8" adapters for suction line connections (3 ton unit).
- Unit is charged with refrigerant for 15' of 3/8" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.
- Installation of these units requires the specified TXV Kit to be installed on the indoor coil. THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT, NOT THE INDOOR COIL.

NOTE: This data is provided as a guide, it is important to electrically connect the unit and properly size fuses/circuit breakers and wires in accordance with all national and/or local electrical codes. Use copper wire only.

Unit specifications are subject to change without notice. **ALWAYS** refer to the unit's serial plate for the most up-to-date general and electrical information.

COOLING PERFORMANCE DATA

G/VSZ130181A*

MODEL: G/VSZ130181A* / AR*F182416**

EXPANDED PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

IDB*	Airflow	Outdoor Ambient Temperature																													
		65					75					85					95					105					115				
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75
80	525	MBh	15.8	16.2	17.3	18.5	15.4	15.8	16.9	18.0	18.0	15.1	15.4	16.5	17.6	14.7	15.0	16.1	17.2	14.0	14.3	15.3	16.3	12.9	13.2	14.1	15.1				
		S/T	0.85	0.80	0.65	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.88	0.71	0.53	0.97	0.97	0.91	0.74	0.55	0.98	0.92	0.75	0.56				
		DT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	24	23	20	16	22	21	18	15				
		KW	1.23	1.25	1.29	1.33	1.32	1.34	1.39	1.43	1.40	1.43	1.47	1.52	1.47	1.50	1.55	1.60	1.56	1.53	1.56	1.61	1.66	1.58	1.61	1.67	1.72				
		AMPS	4.4	4.5	4.7	4.9	4.8	4.9	5.1	5.3	5.2	5.3	5.5	5.7	5.6	5.7	5.9	6.1	5.9	5.9	6.1	6.3	6.5	6.3	6.4	6.6	6.9				
		HI PR	220	237	250	261	247	266	281	293	281	302	319	333	320	344	364	379	360	388	409	427	398	428	452	472					
	600	LOPR	106	113	124	132	112	120	131	139	117	124	136	145	123	131	143	152	129	137	149	159	133	142	155	165					
		MBh	17.1	17.5	18.7	20.0	16.7	17.1	18.3	19.5	16.3	16.7	17.8	19.1	15.9	16.3	17.4	18.6	15.1	15.5	16.5	17.7	14.0	14.3	15.3	16.4					
		S/T	0.88	0.83	0.67	0.50	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	0.95	0.77	0.58					
		DT	23	22	19	15	23	23	20	16	24	23	20	16	24	23	20	16	23	22	19	16	16	21	21	18	15				
		KW	1.26	1.28	1.32	1.36	1.35	1.38	1.42	1.46	1.43	1.46	1.51	1.56	1.50	1.54	1.59	1.64	1.57	1.60	1.65	1.70	1.62	1.65	1.71	1.76					
		AMPS	4.6	4.7	4.8	5.0	4.9	5.0	5.2	5.4	5.3	5.5	5.7	5.9	5.7	5.9	6.1	6.3	6.1	6.2	6.4	6.7	6.4	6.6	6.8	7.1					
675	HI PR	227	244	258	269	255	274	290	302	290	312	329	343	330	355	375	391	371	400	422	440	410	441	466	486						
	LOPR	110	117	127	136	116	123	135	143	120	128	140	149	127	135	147	157	133	141	154	164	137	146	159	170						
	MBh	17.6	18.0	19.3	20.6	17.2	17.6	18.8	20.1	16.8	17.2	18.4	19.6	16.4	16.8	17.9	19.2	15.6	15.9	17.0	18.2	14.4	14.8	15.8	16.9						
	S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.81	0.61						
	DT	22	21	19	15	23	22	19	15	23	22	19	15	22	22	19	15	21	22	19	15	20	20	17	14						
	KW	1.27	1.29	1.33	1.37	1.36	1.39	1.43	1.48	1.44	1.47	1.52	1.57	1.52	1.55	1.60	1.65	1.58	1.61	1.66	1.72	1.63	1.67	1.72	1.78						
85	525	AMPS	4.6	4.7	4.9	5.0	5.0	5.1	5.3	5.4	5.4	5.5	5.7	5.9	5.8	5.9	6.1	6.3	6.1	6.3	6.5	6.8	6.5	6.7	6.9	7.2					
		HI PR	229	247	261	272	257	277	292	305	293	315	333	347	333	359	379	395	375	404	426	444	414	446	471	491					
		LOPR	108	114	125	133	114	121	132	140	118	126	137	146	124	132	144	153	130	138	151	161	134	143	156	166					
		MBh	17.4	17.8	18.6	19.9	17.0	17.4	18.2	19.4	16.6	16.9	17.7	18.9	16.2	16.5	17.3	18.5	15.4	15.7	16.4	17.5	14.3	14.5	15.2	16.3					
		S/T	0.93	0.89	0.81	0.65	0.96	0.93	0.84	0.68	0.98	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75					
		DT	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	24	24	23	20	22	22	22	19					
	600	KW	1.27	1.29	1.33	1.37	1.36	1.39	1.43	1.48	1.44	1.47	1.52	1.57	1.52	1.55	1.60	1.65	1.58	1.61	1.66	1.72	1.63	1.67	1.72	1.78					
		AMPS	4.6	4.7	4.9	5.0	5.0	5.1	5.3	5.4	5.4	5.5	5.7	5.9	5.8	5.9	6.1	6.3	6.1	6.3	6.5	6.8	6.5	6.7	6.9	7.2					
		HI PR	229	247	261	272	257	277	292	305	293	315	333	347	333	359	379	395	375	404	426	444	414	446	471	491					
		LOPR	111	118	129	137	117	125	136	145	122	129	141	151	128	136	148	158	134	143	156	166	139	147	161	171					
		MBh	18.0	18.3	19.2	20.5	17.5	17.9	18.7	20.0	17.1	17.5	18.3	19.5	16.7	17.0	17.8	19.0	15.9	16.2	16.9	18.1	14.7	15.0	15.7	16.7					
		S/T	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79					
675	DT	24	23	22	19	24	24	22	19	23	24	22	19	23	23	23	20	22	22	19	20	20	20	21	18						
	KW	1.28	1.30	1.34	1.38	1.37	1.40	1.44	1.49	1.45	1.49	1.53	1.58	1.53	1.56	1.61	1.66	1.59	1.63	1.68	1.73	1.65	1.68	1.74	1.79						
	AMPS	4.6	4.7	4.9	5.1	5.0	5.1	5.3	5.5	5.4	5.6	5.8	6.0	5.8	6.0	6.2	6.4	6.2	6.3	6.6	6.8	6.6	6.7	7.0	7.2						
	HI PR	232	249	263	275	260	280	295	308	296	318	336	350	337	362	383	399	379	408	430	449	418	450	475	496						
	LOPR	112	119	130	138	118	126	137	146	123	131	143	152	129	137	150	160	135	144	157	167	140	149	163	173						

Shaded area is AHRI Rating Conditions
 IDB: Entering Indoor Dry Bulb Temperature
 KW= Total system power
 AMPS=outdoor unit amps (comp.+fan)
 High and low pressures are measured at the liquid and suction service valves.

COOLING PERFORMANCE DATA

G/VSZ130301A*

MODEL: G/VSZ130301A* / AR*F30301**

EXPANDED PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

IDB*	Airflow	Outdoor Ambient Temperature																								
		65				75				85				95				105				115				
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
70	927	MBh	25.7	26.6	29.1	-	25.1	26.0	28.5	-	24.5	25.4	27.8	-	23.9	24.7	27.1	-	22.7	23.5	25.8	-	21.0	21.8	23.9	-
		S/T	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-
		DT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		KW	1.94	1.98	2.04	-	2.08	2.13	2.19	-	2.21	2.25	2.32	-	2.32	2.37	2.44	-	2.41	2.46	2.54	-	2.49	2.54	2.62	-
		AMPS	7.6	7.8	8.0	-	8.2	8.3	8.6	-	8.8	9.0	9.3	-	9.4	9.6	9.9	-	10.0	10.2	10.5	-	10.5	10.8	11.1	-
	1050	HI PR	223	240	253	-	250	269	284	-	284	306	323	-	324	348	368	-	364	392	414	-	402	433	457	-
		LOPR	104	111	121	-	110	117	128	-	114	121	133	-	120	128	139	-	126	134	146	-	130	138	151	-
		MBh	27.0	28.0	30.7	-	26.4	27.4	30.0	-	25.8	26.7	29.3	-	25.1	26.1	28.5	-	23.9	24.7	27.1	-	22.1	22.9	25.1	-
		S/T	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.48	-
		DT	17	15	11	-	17	15	11	-	17	15	11	-	18	15	12	-	17	15	11	-	16	14	11	-
1173	KW	1.97	2.01	2.07	-	2.12	2.16	2.22	-	2.24	2.29	2.36	-	2.35	2.40	2.48	-	2.45	2.50	2.58	-	2.53	2.59	2.67	-	
	AMPS	7.7	7.9	8.1	-	8.3	8.5	8.8	-	9.0	9.2	9.5	-	9.6	9.8	10.1	-	10.2	10.4	10.7	-	10.7	11.0	11.3	-	
	HI PR	227	245	258	-	255	274	290	-	290	312	330	-	330	355	375	-	372	400	422	-	411	442	467	-	
	LOPR	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	149	-	133	141	154	-	
	MBh	27.4	28.4	31.1	-	26.8	27.8	30.4	-	26.1	27.1	29.7	-	25.5	26.4	29.0	-	24.2	25.1	27.5	-	22.4	23.3	25.5	-	

IDB*	Airflow	Outdoor Ambient Temperature																								
		65				75				85				95				105				115				
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
75	927	MBh	26.1	26.9	29.1	31.2	25.5	26.3	28.4	30.5	24.9	25.6	27.7	29.8	24.3	25.0	27.1	29.0	23.1	23.8	25.7	27.6	21.4	22.0	23.8	25.6
		S/T	0.79	0.71	0.54	0.35	0.82	0.73	0.56	0.36	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.81	0.62	0.40
		DT	21	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
		KW	1.96	2.00	2.06	2.12	2.10	2.14	2.21	2.28	2.22	2.27	2.34	2.42	2.34	2.38	2.46	2.54	2.43	2.48	2.56	2.64	2.51	2.56	2.65	2.73
		AMPS	7.6	7.8	8.1	8.3	8.2	8.4	8.7	9.0	8.9	9.1	9.4	9.7	9.5	9.7	10.0	10.4	10.1	10.3	10.6	11.0	10.6	10.9	11.2	11.6
	1050	HI PR	225	242	256	267	252	272	287	299	287	309	326	340	327	352	372	388	368	396	418	436	406	437	462	482
		LOPR	105	112	122	130	111	118	129	137	115	123	134	143	121	129	141	150	127	135	147	157	131	140	152	162
		MBh	27.5	28.3	30.6	32.9	26.8	27.6	29.9	32.1	26.2	27.0	29.2	31.3	25.6	26.3	28.5	30.6	24.3	25.0	27.1	29.0	22.5	23.2	25.1	26.9
		S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.81	0.61	0.40	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
		DT	20	18	15	10	20	19	15	10	20	19	15	11	20	19	15	11	20	18	15	10	19	17	14	10
1173	KW	1.99	2.03	2.09	2.15	2.13	2.18	2.24	2.31	2.26	2.31	2.38	2.45	2.37	2.42	2.50	2.58	2.47	2.52	2.60	2.69	2.55	2.61	2.69	2.78	
	AMPS	7.8	8.0	8.2	8.5	8.4	8.6	8.8	9.1	9.1	9.3	9.6	9.9	9.6	9.9	10.2	10.6	10.2	10.5	10.8	11.2	10.8	11.1	11.4	11.9	
	HI PR	230	247	261	272	258	277	293	305	293	315	333	347	334	359	379	395	375	404	427	445	415	446	471	492	
	LOPR	107	114	124	133	113	120	131	140	118	125	137	146	124	131	144	153	130	138	150	160	134	143	156	166	
	MBh	27.9	28.7	31.1	33.4	27.2	28.0	30.4	32.6	26.6	27.4	29.6	31.8	25.9	26.7	28.9	31.0	24.6	25.4	27.5	29.5	22.8	23.5	25.4	27.3	

Shaded area is ACCA (TVA) conditions IDB: Entering Indoor Dry Bulb Temperature KW=Total system power AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

COOLING PERFORMANCE DATA

G/VSZ130301A*

IDB*	Airflow	Outdoor Ambient Temperature																													
		65					75					85					95					105					115				
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75
80	927	MBh	26.6	27.1	29.0	31.0	25.9	26.5	28.3	30.3	25.3	25.9	27.7	29.6	24.7	25.3	27.0	28.8	23.5	24.0	25.6	27.4	21.7	22.2	23.7	25.4					
		S/T	0.87	0.82	0.66	0.50	0.90	0.85	0.69	0.51	0.92	0.87	0.71	0.53	0.95	0.89	0.73	0.54	0.99	0.93	0.76	0.56	1.00	0.94	0.76	0.57					
		DT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	16	23	22	19	15	22	21	18	14					
		KW	1.97	2.01	2.07	2.13	2.12	2.16	2.22	2.29	2.24	2.29	2.36	2.43	2.35	2.40	2.48	2.56	2.45	2.50	2.58	2.66	2.53	2.59	2.67	2.76					
		AMPS	7.7	7.9	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.8	9.6	9.8	10.1	10.5	10.2	10.4	10.7	11.1	10.7	11.0	11.3	11.8					
	1050	HI PR	227	245	258	269	255	274	290	302	290	312	330	344	330	355	375	391	372	400	422	440	411	442	467	487					
		LOPR	106	113	123	131	112	119	130	139	116	124	135	144	122	130	142	151	128	136	149	159	133	141	154	164					
		MBh	28.0	28.6	30.5	32.6	27.3	27.9	29.8	31.9	26.7	27.2	29.1	31.1	26.0	26.6	28.4	30.4	24.7	25.3	27.0	28.8	22.9	23.4	25.0	26.7					
		S/T	0.91	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.96	0.90	0.74	0.55	1.00	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.98	0.80	0.59					
		DT	22	21	19	15	22	22	19	15	23	22	19	15	23	22	19	15	22	21	19	15	20	20	17	14					
1173	KW	2.00	2.04	2.10	2.17	2.15	2.19	2.26	2.33	2.28	2.33	2.40	2.47	2.39	2.44	2.52	2.60	2.49	2.54	2.62	2.71	2.57	2.63	2.71	2.80						
	AMPS	7.8	8.0	8.3	8.6	8.4	8.6	8.9	9.2	9.1	9.3	9.6	10.0	9.7	10.0	10.3	10.7	10.3	10.6	10.9	11.3	10.9	11.2	11.5	12.0						
	HI PR	232	250	264	275	260	280	296	308	296	318	336	351	337	363	383	399	379	408	431	449	419	451	476	497						
	LOPR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167						
	MBh	28.4	29.0	31.0	33.1	27.7	28.3	30.3	32.4	27.1	27.7	29.5	31.6	26.4	27.0	28.8	30.8	25.1	25.6	27.4	29.3	23.2	23.7	25.4	27.1						

IDB*	Airflow	Outdoor Ambient Temperature																													
		65					75					85					95					105					115				
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75
85	927	MBh	27.0	27.6	28.9	30.8	26.4	26.9	28.2	30.1	25.8	26.3	27.5	29.4	25.1	25.6	26.8	28.6	23.9	24.4	25.5	27.2	22.1	22.6	23.6	25.2					
		S/T	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.67	0.97	0.93	0.84	0.68	1.00	0.96	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.91	0.74					
		DT	24	24	23	20	25	24	23	20	25	24	23	20	25	25	23	20	24	24	23	20	22	22	21	18					
		KW	1.99	2.03	2.09	2.15	2.13	2.18	2.24	2.31	2.26	2.31	2.38	2.45	2.37	2.42	2.50	2.58	2.47	2.52	2.60	2.69	2.55	2.61	2.69	2.78					
		AMPS	7.8	8.0	8.2	8.5	8.4	8.6	8.8	9.1	9.1	9.3	9.6	9.9	9.6	9.9	10.2	10.6	10.2	10.5	10.8	11.2	10.8	11.1	11.4	11.9					
	1050	HI PR	230	247	261	272	258	277	293	305	293	315	333	347	334	359	379	395	375	404	426	445	415	446	471	491					
		LOPR	107	114	124	133	113	120	131	140	118	125	137	146	124	131	144	153	130	138	150	160	134	143	156	166					
		MBh	28.5	29.0	30.4	32.4	27.8	28.3	29.7	31.7	27.1	27.7	29.0	30.9	26.5	27.0	28.3	30.1	25.1	25.6	26.8	28.6	23.3	23.7	24.9	26.5					
		S/T	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.77	1.00	1.00	0.95	0.77					
		DT	24	23	22	19	24	24	22	19	24	24	22	19	23	24	22	19	22	22	22	19	20	21	21	18					
1173	KW	2.02	2.06	2.12	2.19	2.17	2.21	2.28	2.35	2.30	2.34	2.42	2.49	2.41	2.46	2.54	2.62	2.51	2.56	2.64	2.73	2.59	2.65	2.74	2.82						
	AMPS	7.9	8.1	8.3	8.6	8.5	8.7	9.0	9.3	9.2	9.4	9.7	10.1	9.8	10.1	10.4	10.7	10.4	10.7	11.0	11.4	11.0	11.3	11.6	12.1						
	HI PR	234	252	266	278	263	283	299	311	299	322	340	354	340	366	387	403	383	412	435	454	423	455	481	502						
	LOPR	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	159	169						
	MBh	28.9	29.4	30.8	32.9	28.2	28.8	30.1	32.1	27.5	28.1	29.4	31.4	26.9	27.4	28.7	30.6	25.5	26.0	27.2	29.1	23.6	24.1	25.2	26.9						

Shaded area is AHRI Rating Conditions

IDB: Entering Indoor Dry Bulb Temperature

KW=Total system power

AMPS=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

COOLING PERFORMANCE DATA

G/VSZ130361B*

EXPANDED PERFORMANCE DATA

MODEL: G/VSZ130361B* / AR*F364216**

COOLING OPERATION

IDB	Airflow	Outdoor Ambient Temperature												115												
		65				75				85					95				105							
		59	63	67	71	59	63	67	71	59	63	67	71		59	63	67	71	59	63	67	71				
80	1050	MBh	31.8	32.5	34.7	37.1	31.1	31.7	33.9	36.3	30.3	31.0	33.1	35.4	29.6	30.2	32.3	34.5	28.1	28.7	30.7	32.8	26.0	26.6	28.4	30.4
		ST	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.92	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.76	0.57
		□T	24	23	20	16	24	23	20	16	24	23	20	16	25	24	20	16	24	23	20	16	23	22	19	15
		KW	2.45	2.50	2.58	2.66	2.64	2.69	2.78	2.87	2.80	2.86	2.95	3.05	2.94	3.01	3.10	3.21	3.06	3.13	3.23	3.34	3.17	3.24	3.35	3.46
		AMPS	8.5	8.7	8.9	9.3	9.1	9.3	9.6	10.0	9.9	10.1	10.5	10.9	10.6	10.8	11.2	11.6	11.2	11.5	11.9	12.3	11.9	12.2	12.6	13.1
		HI PR	233	251	265	276	262	282	297	310	298	320	338	353	339	365	385	402	381	410	433	452	421	453	479	499
	1200	LO PR	105	112	122	130	111	118	129	137	115	123	134	143	121	129	141	150	127	135	147	157	131	140	152	162
		MBh	34.5	35.2	37.6	40.2	33.7	34.4	36.8	39.3	32.9	33.6	35.9	38.4	32.1	32.8	35.0	37.4	30.5	31.1	33.3	35.5	28.2	28.8	30.8	32.9
		ST	0.90	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.95	0.89	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.96	0.78	0.58	1.00	0.96	0.78	0.59
		□T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	22	21	19	15
		KW	2.51	2.56	2.64	2.73	2.70	2.76	2.85	2.94	2.87	2.93	3.02	3.12	3.02	3.08	3.18	3.29	3.14	3.21	3.32	3.43	3.25	3.32	3.43	3.55
		AMPS	8.7	8.9	9.2	9.5	9.4	9.6	9.9	10.3	10.2	10.4	10.8	11.2	10.9	11.1	11.5	11.9	11.6	11.8	12.2	12.7	12.2	12.5	13.0	13.4
1350	HI PR	240	259	273	285	270	290	306	320	307	330	349	364	349	376	397	414	393	423	447	466	434	467	493	515	
	LO PR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167	
	MBh	35.498	36.274	38.754	41.428	34.673	35.43	37.853	40.464	33.847	34.586	36.951	39.501	33.022	33.743	36.05	38.537	31.371	32.056	34.248	36.611	29.059	29.694	31.724	33.913	
	ST	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.82	0.62	
	□T	23	22	19	15	24	22	19	15	23	22	19	15	22	22	19	15	21	22	19	15	20	20	18	14	
	KW	2.53	2.58	2.66	2.75	2.72	2.78	2.87	2.96	2.89	2.95	3.05	3.15	3.04	3.11	3.21	3.32	3.17	3.24	3.35	3.46	3.28	3.35	3.46	3.58	
85	1050	MBh	32.4	33.0	34.6	36.9	31.6	32.2	33.8	36.0	30.9	31.5	32.9	35.1	30.1	30.7	32.1	34.3	28.6	29.2	30.5	32.6	26.5	27.0	28.3	30.2
		ST	0.91	0.87	0.79	0.64	0.94	0.91	0.82	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.91	0.73
		□T	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21	25	25	24	21	23	24	22	19
		KW	2.47	2.52	2.60	2.68	2.66	2.71	2.80	2.89	2.82	2.88	2.97	3.07	2.97	3.03	3.13	3.23	3.09	3.16	3.26	3.37	3.20	3.27	3.38	3.49
		AMPS	8.5	8.7	9.0	9.3	9.2	9.4	9.7	10.1	10.0	10.2	10.6	11.0	10.7	10.9	11.3	11.7	11.3	11.6	12.0	12.5	12.0	12.3	12.7	13.2
		HI PR	235	253	268	279	264	284	300	313	301	323	341	356	342	368	389	406	385	414	438	456	425	458	483	504
	1200	LO PR	106	113	123	131	112	119	130	139	116	124	135	144	122	130	142	151	128	136	149	159	133	141	154	164
		MBh	35.1	35.7	37.4	39.9	34.3	34.9	36.6	39.0	33.4	34.1	35.7	38.1	32.6	33.3	34.8	37.2	31.0	31.6	33.1	35.3	28.7	29.3	30.6	32.7
		ST	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.96	0.87	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.94	0.76
		□T	25	25	23	20	26	25	24	21	26	25	24	21	25	25	24	21	24	24	24	20	22	22	22	19
		KW	2.53	2.58	2.66	2.75	2.72	2.78	2.87	2.96	2.89	2.95	3.05	3.15	3.04	3.11	3.21	3.32	3.17	3.24	3.35	3.46	3.28	3.35	3.46	3.58
		AMPS	8.8	9.0	9.3	9.6	9.5	9.7	10.0	10.4	10.3	10.5	10.9	11.3	11.0	11.2	11.6	12.0	11.7	12.0	12.3	12.8	12.4	12.7	13.1	13.6
1350	HI PR	243	261	276	288	272	293	310	323	310	333	352	367	353	380	401	418	397	427	451	470	439	472	498	520	
	LO PR	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	159	169	
	MBh	36.1	36.8	38.6	41.1	35.3	36.0	37.7	40.2	34.4	35.1	36.8	39.2	33.6	34.2	35.9	38.3	31.9	32.5	34.1	36.4	29.6	30.1	31.6	33.7	
	ST	0.98	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.98	0.79	1.00	1.00	0.98	0.80	
	□T	24	24	23	19	24	24	23	20	23	24	23	20	23	23	23	20	22	22	23	20	20	21	21	18	
	KW	2.55	2.60	2.68	2.77	2.74	2.80	2.89	2.99	2.91	2.98	3.07	3.18	3.07	3.13	3.24	3.34	3.20	3.27	3.37	3.49	3.31	3.38	3.49	3.61	

Shaded area is A-I-R-I Rating Conditions

High and low pressures are measured at the liquid and suction service valves.

IDB: Entering Indoor Dry Bulb Temperature

KW=Total system power

AMPS=outdoor unit amps (comp.+fan)

COOLING PERFORMANCE DATA

G/VSZ130481A*

MODEL: G/VSZ130481A* /AR *F48601**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Table with columns: IDB*, Airflow, 59, 63, 67, 71, 75, 85, 85, 95, 95, 105, 115. Rows include MBh, S/T, DT, KW, AMPS, HI PR, LO PR for airflow rates 1400, 1600, and 1800.

Table with columns: IDB*, Airflow, 59, 63, 67, 71, 75, 85, 85, 95, 95, 105, 115. Rows include MBh, S/T, DT, KW, AMPS, HI PR, LO PR for airflow rates 1400, 1600, and 1800.

Shaded area is AHRI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature K/W=Total system power AMP/S=outdoor unit amps (comp. fan)

High and low pressures are measured at the liquid and suction service valves.

COOLING PERFORMANCE DATA

GSZ130483A*

EXPANDED PERFORMANCE DATA

MODEL: GSZ130483A* / AR*F486016**

IDB	Airflow	Outdoor Ambient Temperature														COOLING OPERATION							
		75				85				95				105				115					
		59	63	67	71	59	63	67	71	59	63	67	71	59	63		67	71	59	63	67	71	
70	1400	MBh	40.4	41.9	45.9	-	39.5	39.9	43.7	-	37.6	38.9	42.7	-	35.7	37.0	40.5	-	33.1	34.3	37.5	-	
		ST	0.70	0.58	0.40	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-	
		DT	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	
		KW	3.16	3.22	3.31	-	3.38	3.45	3.55	-	3.75	3.83	3.94	-	3.89	3.98	4.10	-	4.02	4.10	4.23	-	
	AMPS	7.3	7.4	7.6	-	8.4	8.6	8.9	-	9.0	9.2	9.5	-	9.5	9.7	10.0	-	10.1	10.3	10.6	-		
	HIPR	229	247	260	-	257	277	292	-	333	358	378	-	375	403	426	-	414	445	470	-		
	LO PR	103	109	120	-	109	116	126	-	113	120	131	-	119	126	138	-	124	132	144	-		
	MBh	43.8	45.4	49.7	-	42.7	44.3	48.5	-	41.7	43.2	47.4	-	40.7	42.2	46.2	-	38.7	40.1	43.9	-		
	ST	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-		
	DT	18	16	12	-	18	16	12	-	18	16	12	-	19	16	12	-	18	16	12	-		
	KW	3.23	3.29	3.39	-	3.46	3.53	3.63	-	3.66	3.73	3.85	-	3.84	3.92	4.04	-	3.99	4.07	4.20	-		
	AMPS	7.4	7.6	7.8	-	8.0	8.2	8.4	-	8.7	8.9	9.1	-	9.2	9.4	9.7	-	9.8	10.0	10.3	-		
	HIPR	236	254	268	-	265	285	301	-	301	324	342	-	343	369	390	-	386	416	439	-		
	LO PR	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	149	-		
MBh	45.1	46.7	51.2	-	44.0	45.6	50.0	-	43.0	44.5	48.8	-	41.9	43.5	47.6	-	39.8	41.3	45.2	-			
ST	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.81	0.67	0.47	-	0.83	0.70	0.48	-	0.86	0.72	0.50	-			
DT	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-			
KW	3.26	3.32	3.42	-	3.49	3.55	3.66	-	3.69	3.76	3.88	-	3.87	3.95	4.07	-	4.02	4.10	4.23	-			
AMPS	7.5	7.7	7.9	-	8.1	8.3	8.5	-	8.7	8.9	9.2	-	9.3	9.5	9.8	-	9.9	10.1	10.4	-			
HIPR	239	257	271	-	268	288	304	-	304	328	346	-	347	373	394	-	390	420	443	-			
LO PR	107	114	124	-	113	120	131	-	118	125	137	-	124	131	144	-	130	138	150	-			
75	1400	MBh	41.1	42.3	45.8	49.1	40.1	41.3	44.7	48.0	39.2	40.3	43.7	46.8	38.2	39.3	42.6	45.7	36.3	37.4	40.5	43.4	
		ST	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	
		DT	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	20
		KW	3.19	3.25	3.34	3.44	3.41	3.48	3.58	3.68	3.60	3.68	3.79	3.90	3.78	3.86	3.97	4.10	3.93	4.01	4.13	4.26	4.05
	AMPS	7.3	7.5	7.7	8.0	7.9	8.0	8.3	8.6	8.5	8.7	9.0	9.3	9.1	9.3	9.6	9.9	9.6	9.8	10.1	10.5	10.1	
	HIPR	231	249	263	274	260	279	295	308	295	318	336	350	336	362	382	399	378	407	430	448	418	
	LO PR	104	111	121	129	110	117	128	136	114	121	133	141	120	128	139	148	126	134	146	155	130	
	MBh	44.5	45.8	49.6	53.2	43.5	44.8	48.4	52.0	42.4	43.7	47.3	50.8	41.4	42.6	46.1	49.5	39.3	40.5	43.8	47.0	36.4	
	ST	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.94	
	DT	21	19	16	11	21	20	16	11	21	20	16	11	21	20	16	11	21	19	16	11	20	
	KW	3.26	3.32	3.42	3.52	3.49	3.56	3.66	3.77	3.69	3.76	3.88	4.00	3.87	3.95	4.07	4.20	4.02	4.10	4.23	4.36	4.15	
	AMPS	7.5	7.7	7.9	8.2	8.1	8.3	8.5	8.8	8.7	8.9	9.2	9.5	9.3	9.5	9.8	10.2	9.9	10.1	10.4	10.8	10.4	
	HIPR	239	257	271	283	268	288	304	317	304	328	346	361	347	373	394	411	390	420	443	462	431	
	LO PR	107	114	124	133	113	120	131	140	118	125	137	146	124	131	144	153	130	138	150	160	134	
MBh	45.8	47.2	51.1	54.8	44.8	46.1	49.9	53.6	43.7	45.0	48.7	52.3	42.6	43.90	47.5	51.0	40.5	41.7	45.1	48.5	37.5		
ST	0.86	0.77	0.58	0.38	0.89	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.98	0.88	0.66	0.43	0.99		
DT	20	19	15	11	20	19	15	11	20	19	15	11	21	19	16	11	20	19	15	11	19		
KW	3.28	3.34	3.44	3.54	3.51	3.58	3.69	3.80	3.72	3.79	3.91	4.03	3.90	3.98	4.10	4.23	4.05	4.14	4.26	4.40	4.18		
AMPS	7.6	7.7	8.0	8.3	8.1	8.3	8.6	8.9	8.8	9.0	9.3	9.6	9.4	9.6	9.9	10.3	9.9	10.2	10.5	10.9	10.5		
HIPR	241	259	274	286	270	291	307	320	307	331	349	364	350	377	398	415	394	424	448	467	435		
LO PR	108	115	126	134	114	122	133	141	109	126	138	147	125	133	145	154	131	139	152	162	135		

Shaded area is ACCA (TVA) conditions
 IDB: Entering Indoor Dry Bulb Temperature
 KW=Total system power
 AMP S=outdoor unit amps (comp.+fan)

High and low pressures are measured at the liquid and suction service valves.

COOLING PERFORMANCE DATA

GSZ130484A*

EXPANDED PERFORMANCE DATA

MODEL: GSZ130484A* / AR*F486016**

		Outdoor Ambient Temperature															COOLING OPERATION														
		75					85					95					105					115									
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71						
		Entering Indoor Wet Bulb Temperature																													
80	1400	MBh	41.8	42.7	45.6	48.8	40.8	41.7	44.6	47.7	39.9	40.7	43.5	46.5	38.9	39.7	42.5	45.4	36.9	37.8	40.3	43.1	34.2	35.0	37.4	39.9	34.2	35.0	37.4	39.9	
		ST	0.87	0.82	0.66	0.50	0.90	0.85	0.69	0.51	0.92	0.87	0.71	0.53	0.95	0.90	0.73	0.54	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57	1.00	0.94	0.76	0.57	
		W	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	22	22	19	22	22	22	19	
		KW	3.20	3.26	3.35	3.45	3.42	3.49	3.59	3.70	3.62	3.70	3.81	3.92	3.80	3.88	3.99	4.12	3.95	4.03	4.15	4.28	4.07	4.16	4.28	4.43	4.07	4.16	4.28	4.43	
		AMPS	4.4	4.4	4.6	4.7	4.7	4.8	4.9	5.1	5.0	5.2	5.3	5.5	5.4	5.5	5.7	5.8	5.7	5.8	6.0	6.2	6.0	6.1	6.3	6.6	6.0	6.1	6.3	6.6	
	1600	HI PR	238	256	270	282	267	287	303	316	304	327	345	360	346	372	393	410	389	419	442	461	430	462	488	509	430	462	488	509	
		LO PR	105	112	122	130	111	118	129	137	115	123	134	143	121	129	141	150	127	135	147	157	131	140	152	162	131	140	152	162	
		MBh	45.3	46.3	49.5	52.9	44.2	45.2	48.3	51.6	43.2	44.1	47.2	50.4	42.1	43.1	46.0	49.2	40.0	40.9	43.7	46.7	37.1	37.9	40.5	43.3	37.1	37.9	40.5	43.3	
		ST	0.90	0.85	0.69	0.51	0.94	0.88	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.56	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59	
		T	23	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	21	21	21	18	21	21	21	18	
	1800	KW	3.27	3.33	3.43	3.53	3.50	3.57	3.68	3.79	3.71	3.78	3.90	4.02	3.89	3.97	4.09	4.22	4.04	4.13	4.25	4.39	4.17	4.26	4.40	4.54	4.17	4.26	4.40	4.54	
		AMPS	4.5	4.6	4.7	4.9	4.8	4.9	5.0	5.2	5.2	5.3	5.5	5.6	5.5	5.6	5.8	6.0	5.8	6.0	6.2	6.4	6.2	6.3	6.5	6.7	6.2	6.3	6.5	6.7	
		HI PR	245	264	279	291	275	296	313	326	313	337	356	371	356	384	405	422	401	431	456	475	443	477	503	525	443	477	503	525	
		LO PR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167	135	144	157	167	
		MBh	46.7	47.7	50.9	54.4	45.6	46.6	49.7	53.2	44.5	45.5	48.6	51.9	43.4	44.3	47.4	50.6	41.2	42.1	45.0	48.1	38.2	39.0	41.7	44.6	38.2	39.0	41.7	44.6	
85	1400	ST	0.95	0.89	0.72	0.54	1.00	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62	1.00	1.00	0.83	0.62	
		W	23	22	19	15	23	22	19	15	23	22	19	15	22	23	19	15	21	22	19	15	20	20	18	14	20	20	18	14	
		KW	3.29	3.36	3.46	3.56	3.53	3.60	3.71	3.82	3.74	3.81	3.93	4.05	3.92	4.00	4.12	4.25	4.07	4.16	4.29	4.42	4.21	4.30	4.43	4.57	4.21	4.30	4.43	4.57	
		AMPS	4.5	4.6	4.7	4.9	4.8	4.9	5.1	5.3	5.2	5.3	5.5	5.7	5.5	5.7	5.9	6.1	5.9	6.0	6.2	6.4	6.2	6.4	6.6	6.8	6.2	6.4	6.6	6.8	
		HI PR	248	267	281	294	278	299	316	329	316	340	359	375	360	387	409	427	405	436	460	480	447	482	508	530	447	482	508	530	
	1600	LO PR	106	113	123	131	112	119	130	139	116	124	135	144	122	130	142	151	128	136	149	159	133	141	154	164	133	141	154	164	
		MBh	46.1	47.0	49.2	52.5	45.0	45.9	48.1	51.3	43.9	44.8	46.9	50.1	42.9	43.7	45.8	48.8	40.7	41.5	43.5	46.4	37.7	38.5	40.3	43.0	37.7	38.5	40.3	43.0	
		ST	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77	1.00	1.00	0.95	0.77	
		T	25	25	23	20	25	25	24	20	25	25	24	20	25	25	24	21	23	24	23	20	22	22	22	19	22	22	22	19	
		KW	3.29	3.36	3.46	3.56	3.53	3.60	3.71	3.82	3.74	3.81	3.93	4.05	3.92	4.00	4.12	4.25	4.07	4.16	4.29	4.42	4.21	4.30	4.43	4.57	4.21	4.30	4.43	4.57	
	1800	AMPS	4.5	4.6	4.7	4.9	4.8	4.9	5.1	5.3	5.2	5.3	5.5	5.7	5.5	5.7	5.9	6.1	5.9	6.0	6.2	6.4	6.2	6.4	6.6	6.8	6.2	6.4	6.6	6.8	
		HI PR	248	267	281	294	278	299	316	329	316	340	359	375	360	387	409	427	405	436	460	480	447	482	508	530	447	482	508	530	
		LO PR	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	159	169	137	145	159	169	
		MBh	47.5	48.4	50.7	54.1	46.4	47.3	49.5	52.8	45.3	46.1	48.3	51.6	44.2	45.0	47.1	50.3	42.0	42.8	44.8	47.8	38.9	39.6	41.5	44.3	38.9	39.6	41.5	44.3	
		ST	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80	1.00	1.00	0.99	0.80	

Shaded area is AHR1 Rating Conditions

High and low pressures are measured at the liquid and suction service valves.

IDB: Entering Indoor Dry Bulb Temperature

KW= Total system power

AMP-S=outdoor unit amps (comp.+fan)

COOLING PERFORMANCE DATA

G/VSZ130601A*

MODEL: G/VSZ130601A* / AR*F48601**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

IDB*	Airflow	Outdoor Ambient Temperature																				
		65			75			85			95			105			115					
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
80	1575	MBh	51.8	52.9	56.6	60.5	50.6	51.7	55.2	59.1	49.4	50.5	53.9	57.6	48.2	49.2	52.6	56.2	45.8	46.8	50.0	53.4
		S/T	0.86	0.81	0.66	0.49	0.90	0.84	0.68	0.51	0.92	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56
		DT	26	25	22	17	26	25	22	18	26	25	22	18	27	26	22	18	26	25	22	17
		KW	4.05	4.13	4.25	4.37	4.33	4.42	4.55	4.69	4.59	4.68	4.82	4.97	4.81	4.91	5.06	5.22	5.00	5.10	5.26	5.43
		AMPS	14.2	14.6	15.1	15.6	15.4	15.8	16.3	16.9	16.7	17.2	17.7	18.4	17.9	18.4	19.0	19.7	19.1	19.6	20.2	21.0
		LOPR	220	237	250	261	247	266	281	293	281	302	319	333	320	344	364	379	360	388	409	427
	1800	MBh	56.1	57.4	61.3	65.5	54.8	56.0	59.9	64.0	53.5	54.7	58.4	62.5	52.2	53.4	57.0	60.9	49.6	50.7	54.2	57.9
		S/T	0.90	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.95	0.89	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.96	0.78	0.58
		DT	26	25	21	17	26	25	22	17	26	25	22	17	26	25	22	17	25	25	22	17
		KW	4.14	4.22	4.34	4.47	4.43	4.52	4.66	4.80	4.69	4.79	4.94	5.09	4.92	5.03	5.18	5.34	5.12	5.23	5.39	5.56
		AMPS	14.6	15.0	15.5	16.1	15.8	16.2	16.8	17.4	17.2	17.7	18.2	18.9	18.4	18.9	19.5	20.3	19.6	20.1	20.8	21.6
		LOPR	227	244	258	269	255	274	290	302	290	312	329	343	330	355	375	391	371	400	422	440
2025	MBh	103	110	121	129	109	116	126	135	113	120	131	140	119	126	138	147	125	132	145	154	
	S/T	57.8	59.1	63.1	67.5	56.5	57.7	61.6	65.9	55.1	56.3	60.2	64.3	53.8	55.0	58.7	62.8	51.1	52.2	55.8	59.6	
	DT	25	24	21	16	26	24	21	17	25	24	21	17	24	24	21	17	23	24	21	17	
	KW	4.17	4.25	4.38	4.51	4.47	4.56	4.69	4.84	4.73	4.83	4.97	5.13	4.96	5.06	5.22	5.39	5.16	5.27	5.43	5.60	
	AMPS	14.8	15.1	15.6	16.2	16.0	16.4	16.9	17.6	17.4	17.8	18.4	19.1	18.6	19.1	19.7	20.5	19.8	20.3	21.0	21.8	
	LOPR	229	247	261	272	257	277	292	305	293	315	333	347	333	359	379	395	375	404	426	444	
85	1575	MBh	52.7	53.7	56.3	60.0	51.5	52.5	55.0	58.6	50.3	51.2	53.7	57.2	49.0	50.0	52.3	55.8	46.6	47.5	49.7	53.1
		S/T	0.91	0.87	0.79	0.64	0.94	0.91	0.82	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73
		DT	28	27	26	22	28	28	26	23	28	28	26	23	28	28	26	23	27	28	26	23
		KW	4.08	4.16	4.28	4.41	4.37	4.45	4.59	4.73	4.62	4.72	4.86	5.01	4.85	4.95	5.10	5.26	5.04	5.14	5.30	5.47
		AMPS	14.4	14.7	15.2	15.8	15.5	15.9	16.5	17.1	16.9	17.3	17.9	18.6	18.1	18.5	19.2	19.9	19.3	19.7	20.4	21.2
		LOPR	222	239	253	264	250	269	284	296	284	305	323	336	323	348	367	383	364	391	413	431
	1800	MBh	101	107	117	125	107	113	124	132	111	118	129	137	116	124	135	144	122	130	142	151
		S/T	57.1	58.2	61.0	65.0	55.8	56.9	59.6	63.5	54.5	55.5	58.1	62.0	53.1	54.2	56.7	60.5	50.5	51.4	53.9	57.5
		DT	27	27	25	22	28	27	26	22	28	27	26	22	27	27	26	22	26	26	26	22
		KW	4.17	4.25	4.38	4.51	4.47	4.56	4.69	4.84	4.73	4.83	4.97	5.13	4.96	5.06	5.22	5.39	5.16	5.27	5.43	5.60
		AMPS	14.8	15.1	15.6	16.2	16.0	16.4	16.9	17.6	17.4	17.8	18.4	19.1	18.6	19.1	19.7	20.5	19.8	20.3	21.0	21.8
		LOPR	229	247	261	272	257	277	292	305	293	315	333	347	333	359	379	395	375	404	426	444
2025	MBh	104	111	122	130	111	118	129	137	114	122	133	141	120	128	139	148	126	134	146	156	
	S/T	58.8	60.0	62.8	67.0	57.5	58.6	61.3	65.4	56.1	57.2	59.9	63.9	54.7	55.8	58.4	62.3	52.0	53.0	55.5	59.2	
	DT	26	26	24	21	26	26	25	21	25	26	25	21	25	25	25	22	24	24	25	21	
	KW	4.20	4.28	4.41	4.54	4.50	4.59	4.73	4.87	4.77	4.86	5.01	5.17	5.00	5.10	5.26	5.43	5.20	5.31	5.47	5.65	
	AMPS	14.9	15.3	15.8	16.4	16.1	16.5	17.1	17.7	17.5	18.0	18.6	19.3	18.8	19.2	19.9	20.7	20.0	20.5	21.2	22.0	
	LOPR	232	249	263	275	260	280	295	308	296	318	336	350	337	362	383	399	379	408	430	449	

AMPS=outdoor unit amps (comp.+fan)

KW= Total system power

IDB: Entering Indoor Dry Bulb Temperature

Shaded area is AHRI Rating Conditions

High and low pressures are measured at the liquid and suction service valves.

COOLING PERFORMANCE DATA

GSZ130603A*

EXPANDED PERFORMANCE DATA

MODEL: GSZ130603A * /AR * F486016**

COOLING OPERATION

Table with columns for DB, Airflow, and performance metrics across three temperature ranges (65, 75, 85) and four indoor wet bulb temperature ranges (95, 105, 115). Rows include MBh, S/T, DT, KW, AMPS, HI PR, and LOPR for various airflow rates (1575, 1800, 2025).

Shaded area is AHRI Rating Conditions. High and low pressures are measured at the liquid and suction service valves. IDB: Entering Indoor Dry Bulb Temperature. KW=Total system power. AMPS=outdoor unit amps (comp.+fan)

COOLING PERFORMANCE DATA

GSZ130604A*

EXPANDED PERFORMANCE DATA

MODEL: GSZ130604A* / AR*F486016**

COOLING OPERATION

IDB	Airflow	Outdoor Ambient Temperature												Cooling Operation												
		65				75				85				95				105				115				
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
70	1575	MBh	50.1	51.9	56.8	-	48.9	50.7	55.5	-	47.7	49.5	54.2	-	46.6	48.3	52.9	-	44.2	45.8	50.2	-	41.0	42.5	46.5	-
		S/T	0.69	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.61	0.43	-	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.80	0.66	0.46	-
		DT	20	18	13	-	20	18	13	-	21	18	13	-	21	18	14	-	20	18	13	-	19	16	12	-
		KW	3.94	4.02	4.13	-	4.22	4.30	4.43	-	4.47	4.56	4.70	-	4.69	4.78	4.93	-	4.87	4.98	5.13	-	5.03	5.14	5.30	-
		AMPS	4.5	4.6	4.7	-	4.8	4.9	5.1	-	5.2	5.3	5.5	-	5.5	5.6	5.8	-	5.8	6.0	6.2	-	6.2	6.3	6.5	-
	1800	HI PR	216	232	245	-	242	261	275	-	275	296	313	-	314	338	356	-	353	380	401	-	390	420	443	-
		LO PR	98	104	114	-	103	110	120	-	108	114	125	-	113	120	131	-	118	126	137	-	122	130	142	-
		MBh	54.2	56.2	61.6	-	53.0	54.9	60.1	-	51.7	53.6	58.7	-	50.4	52.3	57.3	-	47.9	49.7	54.4	-	44.4	46.0	50.4	-
		S/T	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.82	0.69	0.48	-
		DT	20	17	13	-	20	17	13	-	20	17	13	-	20	18	13	-	20	17	13	-	19	16	12	-
2025	KW	4.03	4.11	4.23	-	4.32	4.41	4.54	-	4.57	4.67	4.81	-	4.80	4.90	5.05	-	4.99	5.10	5.26	-	5.16	5.27	5.43	-	
	AMPS	4.6	4.7	4.8	-	4.9	5.0	5.2	-	5.3	5.4	5.6	-	5.7	5.8	6.0	-	6.0	6.1	6.3	-	6.3	6.5	6.7	-	
	HI PR	222	239	253	-	250	269	284	-	284	306	323	-	323	348	368	-	364	392	413	-	402	433	457	-	
	LO PR	101	107	117	-	107	113	124	-	111	118	129	-	116	124	135	-	122	130	142	-	126	134	147	-	
	MBh	55.9	57.9	63.4	-	54.6	56.5	62.0	-	53.3	55.2	60.5	-	52.0	53.9	59.0	-	49.4	51.2	56.1	-	45.7	47.4	51.9	-	

IDB	Airflow	Outdoor Ambient Temperature												Cooling Operation												
		65				75				85				95				105				115				
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
75	1575	MBh	50.9	52.4	56.7	60.9	49.7	51.2	55.4	59.5	48.5	50.0	54.1	58.1	47.3	48.8	52.8	56.6	45.0	46.3	50.1	53.8	41.7	42.9	46.4	49.8
		S/T	0.79	0.70	0.53	0.34	0.82	0.73	0.55	0.36	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.38	0.90	0.80	0.61	0.39	0.90	0.81	0.61	0.39
		DT	23	22	18	12	24	22	18	12	24	22	18	12	24	22	18	12	24	22	18	12	22	20	17	11
		KW	3.97	4.05	4.17	4.29	4.25	4.34	4.47	4.61	4.50	4.60	4.74	4.88	4.72	4.82	4.97	5.13	4.91	5.02	5.17	5.34	5.07	5.18	5.35	5.52
		AMPS	4.5	4.6	4.7	4.9	4.8	5.0	5.1	5.3	5.2	5.4	5.5	5.7	5.6	5.7	5.9	6.1	5.9	6.0	6.2	6.4	6.2	6.4	6.6	6.8
	1800	HI PR	218	235	248	258	245	263	278	290	278	299	316	330	317	341	360	376	357	384	405	423	394	424	448	467
		LO PR	99	105	115	122	105	111	121	129	109	116	126	134	114	121	133	141	120	127	139	148	124	132	144	153
		MBh	55.1	56.8	61.5	66.0	53.9	55.5	60.0	64.4	52.6	54.1	58.6	62.9	51.3	52.8	57.2	61.4	48.7	50.2	54.3	58.3	45.1	46.5	50.3	54.0
		S/T	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.94	0.84	0.63	0.41
		DT	23	21	17	12	23	21	18	12	23	21	18	12	23	21	18	12	23	21	17	12	22	20	16	11
2025	KW	4.06	4.14	4.26	4.39	4.35	4.44	4.57	4.72	4.61	4.71	4.85	5.00	4.84	4.94	5.09	5.26	5.03	5.14	5.30	5.47	5.20	5.31	5.48	5.66	
	AMPS	4.6	4.7	4.9	5.0	5.0	5.1	5.2	5.4	5.4	5.5	5.7	5.9	5.7	5.8	6.0	6.2	6.1	6.2	6.4	6.6	6.4	6.5	6.8	7.0	
	HI PR	225	242	255	266	252	271	287	299	287	309	326	340	327	352	371	387	368	396	418	436	406	437	461	481	
	LO PR	102	108	118	126	108	115	125	133	112	119	130	139	118	125	137	146	123	131	143	152	128	136	148	158	
	MBh	56.8	58.5	63.3	67.9	55.5	57.1	61.8	66.4	54.2	55.8	60.4	64.8	52.8	54.4	58.9	63.2	50.2	51.7	55.9	60.0	46.5	47.9	51.8	55.6	

Shaded area is ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction service valves.

IDB: Entering Indoor Dry Bulb Temperature

KW=Total system power

AMPS=Outdoor unit amps (comp.+fan)

SPLIT SYSTEM HEATING PERFORMANCE

EXPANDED PERFORMANCE DATA

MODEL: GNSZ130181A* / AR*F182416**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	21.4	20.2	19.0	17.8	17.0	16.5	15.3	14.1	13.3	12.3	11.3	10.7	10.3	9.2	8.2	7.2	6.1	5.0
DELTA T	33.0	31.2	29.4	27.5	26.2	25.4	23.6	21.8	20.6	19.0	17.5	16.5	15.9	14.3	12.7	11.0	9.4	7.7
KW	1.68	1.64	1.61	1.58	1.56	1.54	1.51	1.48	1.46	1.42	1.39	1.37	1.36	1.32	1.29	1.26	1.23	1.19
AMPS	7.3	6.7	6.3	5.9	5.7	5.6	5.3	5.0	4.8	4.6	4.3	4.2	4.2	4.0	3.7	3.5	3.2	2.9
COP	3.73	3.60	3.46	3.30	3.19	3.12	2.96	2.79	2.68	2.53	2.39	2.29	2.22	2.04	1.86	1.66	1.46	1.22
EER	12.8	12.3	11.8	11.3	10.9	10.7	10.1	9.5	9.2	8.7	8.2	7.8	7.6	7.0	6.3	5.7	5.0	4.2

High pressure is measured at the liquid service valve (the smaller valve).
 Low pressure is measured at the gauge port connection.
 Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)
 KW = Total system power

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

HEATING MODE

Pressures shown are for most popular match indoor unit WITH NO FROST ON OUTDOOR COIL. Due to factors like airflow, charge, indoor coil & frost, pressures will vary significantly. Liquid (small) service valve pressures should be ± 20 psig & suction (access port) pressures should be ± 5 psig of the values listed in this chart.

Indoor Air Flow Rate	Indoor Return Air Dry Bulb Temperature (°F)	Outdoor Air Dry Bulb Temperature (°F)																					
		Liquid Valve & Compressor Suction Pressure																					
		Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct						
530	65	268	63	284	71	300	79	316	86	332	94	348	102	364	110	381	117	397	125	413	133	430	141
	70	287	63	304	71	321	78	337	86	354	94	370	101	387	109	404	117	420	125	437	132	454	140
	75	308	63	325	70	343	78	360	86	377	93	394	101	411	109	428	117	445	124	462	132	479	140
600	65	259	63	274	70	289	78	305	86	321	93	336	101	352	109	368	116	383	124	399	132	415	139
	70	278	63	294	71	310	78	326	86	342	94	358	101	374	109	390	117	406	124	422	132	438	140
	75	298	63	314	71	331	79	348	86	364	94	381	102	397	110	414	117	430	125	446	133	462	140
680	65	252	62	267	70	282	78	297	85	313	93	328	101	343	108	358	116	374	124	389	132	405	139
	70	271	63	286	71	302	78	318	86	333	94	349	101	365	109	380	117	396	124	412	132	427	140
	75	290	63	307	71	323	79	339	86	355	94	371	102	387	109	403	117	419	125	435	132	451	140

SPLIT SYSTEM HEATING PERFORMANCE

EXPANDED PERFORMANCE DATA

MODEL: G/V/SZ130241A* / AR*F182416**	Outdoor Ambient Temperature										HEATING OPERATION							
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	28.9	27.4	25.8	24.1	23.0	22.3	20.7	19.1	16.7	15.4	14.2	13.4	12.9	11.6	10.3	9.0	7.6	6.3
DELTA T	32.6	30.9	29.1	27.2	26.0	25.2	23.4	21.6	18.9	17.4	16.0	15.1	14.6	13.1	11.6	10.1	8.6	7.1
KW	2.20	2.15	2.11	2.07	2.04	2.02	1.98	1.94	1.75	1.71	1.67	1.65	1.63	1.59	1.56	1.52	1.48	1.44
AMPS	9.7	9.0	8.4	7.9	7.6	7.5	7.0	6.7	6.4	6.1	5.8	5.6	5.6	5.3	4.9	4.6	4.3	3.8
COP	3.85	3.72	3.57	3.41	3.30	3.23	3.06	2.89	2.79	2.63	2.48	2.38	2.31	2.13	1.93	1.73	1.51	1.27
EER	13.2	12.7	12.2	11.7	11.3	11.0	10.5	9.9	9.5	9.0	8.5	8.1	7.9	7.3	6.6	5.9	5.2	4.4
HI PR	407	390	375	358	350	343	330	317	303	290	278	272	267	257	247	237	228	220
LO PR	135	126	118	108	102	98	90	80	73	65	57	53	51	43	37	31	27	22

High pressure is measured at the liquid service valve (the smaller valve).
 Low pressure is measured at the gauge port connection.
 Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)
 KW = Total system power

**Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

SPLIT SYSTEM HEATING PERFORMANCE

EXPANDED PERFORMANCE DATA

MODEL: G/MSZ130241B*/AR*F182416**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	28.9	27.4	25.8	24.1	23.0	22.3	20.7	19.1	16.9	15.6	14.3	13.6	13.0	11.7	10.4	9.1	7.7	6.3
DELTA T	33.5	31.7	29.8	27.9	26.6	25.8	24.0	22.1	19.5	18.0	16.6	15.7	15.1	13.6	12.0	10.5	8.9	7.3
KW	2.17	2.12	2.08	2.04	2.02	2.00	1.96	1.91	1.80	1.76	1.72	1.70	1.68	1.64	1.60	1.57	1.52	1.49
AMPS	10.1	9.3	8.7	8.2	7.9	7.7	7.3	6.9	6.6	6.3	6.0	5.9	5.8	5.5	5.2	4.9	4.5	4.0
COP	3.91	3.77	3.62	3.46	3.34	3.27	3.10	2.92	2.74	2.59	2.44	2.33	2.27	2.08	1.89	1.69	1.48	1.25
EER	13.3	12.9	12.4	11.8	11.4	11.2	10.6	10.0	9.4	8.8	8.3	8.0	7.7	7.1	6.5	5.8	5.1	4.3

High pressure is measured at the liquid service valve (the smaller valve).
 Low pressure is measured at the gauge port connection.
 Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)
 KW = Total system power

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

HEATING MODE

Pressures shown are for most popular match indoor unit WITH NO FROST ON OUTDOOR COIL. Due to factors like airflow, charge, indoor coil & frost, pressures will vary significantly. Liquid (small) service valve pressures should be ±20 psig & suction (access port) pressures should be ±5 psig of the values listed in this chart.

Indoor Air Flow Rate	Indoor Return Air Dry Bulb Temperature (°F)	Outdoor Air Dry Bulb Temperature (°F)																					
		Liquid Valve & Compressor Suction Pressure																					
		Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct								
700	65	261	59	277	66	293	73	308	80	324	87	340	95	356	102	372	109	388	116	404	124	420	131
	70	280	58	297	66	313	73	329	80	346	87	362	94	378	102	395	109	411	116	427	123	444	130
	75	301	58	318	65	335	73	352	80	368	87	385	94	402	101	419	108	435	116	452	123	468	130
800	65	252	58	267	65	283	72	298	80	313	87	329	94	344	101	360	108	375	115	391	123	406	130
	70	271	58	287	66	303	73	318	80	334	87	350	94	366	101	381	109	397	116	413	123	429	130
	75	291	59	307	66	323	73	340	80	356	88	372	95	388	102	404	109	420	116	436	123	452	131
900	65	246	58	261	65	276	72	290	79	305	87	320	94	335	101	351	108	366	115	381	122	396	130
	70	264	58	280	66	295	73	310	80	326	87	341	94	356	101	372	108	387	116	403	123	418	130
	75	283	59	299	66	315	73	331	80	347	87	363	95	379	102	394	109	410	116	426	123	441	130

EXPANDED PERFORMANCE DATA

MODEL: G/V/SZ130241CA , ARUF24B14B

HEATING OPERATION

		Outdoor Ambient Temperature																	
		65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0.001	-5	-10
MBh	27.2	25.7	24.2	22.6	21.6	20.9	19.4	17.9	15.5	14.3	13.1	12.4	11.9	10.7	9.5	8.3	7.1	5.8	
T/R	31.4	29.8	28.0	26.2	25.0	24.2	22.5	20.8	17.9	16.5	15.2	14.4	13.8	12.4	11.0	9.6	8.2	6.7	
KW	1.87	1.82	1.78	1.73	1.71	1.69	1.65	1.60	1.60	1.56	1.51	1.48	1.47	1.42	1.38	1.33	1.29	1.24	
AMPS	10.2	9.3	8.7	8.1	7.8	7.7	7.2	6.8	6.4	6.1	5.8	5.6	5.6	5.2	4.8	4.5	4.1	3.6	
COP	3.77	3.64	3.50	3.35	3.24	3.17	3.01	2.84	2.45	2.32	2.19	2.10	2.04	1.88	1.72	1.54	1.35	1.14	
EER	14.54	14.11	13.61	13.05	12.65	12.39	11.81	11.19	9.65	9.17	8.69	8.35	8.14	7.54	6.90	6.22	5.50	4.67	

High pressure is measured at the liquid service valve (the smaller valve).

Low pressure is measured at the gauge port connection.

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)
KW = Total system power

*Note: Shaded areas AHRI Rating Conditions at 47° outdoor ambient temperature

HEATING MODE

Pressures shown are for most popular match indoor unit WITH NO FROST ON OUTDOOR COIL. Due to factors like airflow, charge, indoor coil & frost, pressures will vary significantly. Liquid (small) service valve pressures should be ± 20 psig & suction (access port) pressures should be ± 5 psig of the values listed in this chart.

		Outdoor Air Dry Bulb Temperature (°F)																								
		17	22	27	32	37	42	47	52	57	62	67	Liquid Valve & Compressor Suction Pressure													
Indoor Air Flow Rate	Indoor Return Air Dry Bulb Temperature (°F)	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct			
		700	65	251	58	264	65	276	72	288	79	301	86	313	93	326	100	339	107	351	114	364	121	377	128	
	70	270	58	283	65	295	72	308	79	321	86	334	93	346	100	359	107	372	113	385	120	397	127			
	75	289	58	302	65	316	72	329	79	342	86	355	92	368	99	381	106	394	113	407	120	419	127			
	65	243	58	255	65	267	72	279	78	291	85	303	92	315	99	327	106	339	113	352	120	364	127			
	70	261	58	273	65	285	72	298	79	310	86	322	93	335	99	347	106	359	113	372	120	384	127			
	75	279	59	292	66	305	72	318	79	330	86	343	93	355	100	368	107	380	114	393	120	405	127			
	65	237	58	248	65	260	71	272	78	283	85	295	92	307	99	319	106	331	113	343	120	355	126			
	70	254	58	266	65	278	72	290	79	302	86	314	92	326	99	338	106	350	113	362	120	374	127			
	75	272	59	285	65	297	72	310	79	322	86	334	93	347	100	359	107	371	114	383	120	395	127			

SPLIT SYSTEM HEATING PERFORMANCE

EXPANDED PERFORMANCE DATA

MODEL: G/VSZ130301A* / AR*F30301**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	33.2	31.4	29.6	27.6	26.4	25.6	23.8	21.9	19.9	18.4	16.9	16.0	15.4	13.8	12.3	10.7	9.1	7.5
DELTA T	29.3	27.7	26.1	24.4	23.3	22.6	21.0	19.3	17.6	16.2	14.9	14.1	13.6	12.2	10.8	9.4	8.0	6.6
KW	2.52	2.47	2.42	2.37	2.35	2.32	2.28	2.23	2.37	2.32	2.26	2.23	2.21	2.16	2.11	2.05	2.00	1.95
AMPS	9.7	9.0	8.5	8.0	7.7	7.6	7.2	6.9	6.6	6.3	6.0	5.9	5.8	5.6	5.2	5.0	4.6	4.2
COP	3.86	3.72	3.57	3.41	3.29	3.22	3.05	2.88	2.46	2.32	2.19	2.10	2.04	1.88	1.70	1.52	1.34	1.12
EER	13.2	12.7	12.2	11.6	11.3	11.0	10.4	9.8	8.4	7.9	7.5	7.2	7.0	6.4	5.8	5.2	4.6	3.8

High pressure is measured at the liquid service valve (the smaller valve).
 Low pressure is measured at the gauge port connection.
 Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)
 KW = Total system power

*Note: Shaded areas AHRI Rating Conditions at 47° outdoor ambient temperature

HEATING MODE

Pressures shown are for most popular match indoor unit WITH NO FROST ON OUTDOOR COIL. Due to factors like airflow, charge, indoor coil & frost, pressures will vary significantly. Liquid (small) service valve pressures should be ± 20 psig & suction (access port) pressures should be ± 5 psig of the values listed in this chart.

Indoor Air Flow Rate	Indoor Return Air Dry Bulb Temperature (°F)	Outdoor Air Dry Bulb Temperature (°F)																					
		Liquid Valve & Compressor Suction Pressure																					
		Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct						
880	65	260	59	273	66	286	73	300	80	313	87	327	95	340	102	354	109	368	116	381	123	395	130
	70	279	59	293	66	306	73	320	80	334	87	348	94	362	101	376	109	389	116	403	123	417	130
	75	299	58	313	66	328	73	342	80	356	87	370	94	384	101	398	108	412	115	426	122	440	130
1000	65	251	58	264	65	277	72	290	80	303	87	316	94	329	101	342	108	355	115	369	122	382	129
	70	269	59	283	66	296	73	309	80	323	87	336	94	350	101	363	108	376	115	390	123	403	130
	75	289	59	303	66	316	73	330	80	344	87	358	95	371	102	385	109	398	116	412	123	425	130
1130	65	245	58	257	65	270	72	282	79	295	87	308	94	321	101	333	108	346	115	359	122	372	129
	70	263	59	276	66	289	73	302	80	315	87	328	94	341	101	354	108	367	115	380	122	393	129
	75	282	59	295	66	309	73	322	80	335	87	349	95	362	102	375	109	388	116	401	123	415	130

EXPANDED PERFORMANCE DATA

MODEL: G/VSZ130361A* / AR*F364216**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	42.7	40.5	38.1	35.6	34.0	32.9	30.6	28.2	19.9	18.4	16.9	16.0	15.4	13.8	12.3	10.7	9.1	7.5
DELTA T	31.0	29.4	27.7	25.9	24.7	23.9	22.2	20.5	14.5	13.4	12.3	11.6	11.2	10.0	8.9	7.8	6.6	5.4
KW	3.07	3.01	2.96	2.90	2.87	2.85	2.79	2.74	2.82	2.76	2.70	2.67	2.64	2.58	2.52	2.46	2.40	2.35
AMPS	14.2	13.2	12.3	11.6	11.2	11.0	10.4	9.9	9.4	9.0	8.6	8.4	8.3	7.9	7.4	7.0	6.5	5.8
COP	4.07	3.93	3.77	3.59	3.47	3.39	3.21	3.02	2.07	1.95	1.84	1.76	1.71	1.57	1.42	1.27	1.11	0.93
EER	13.9	13.4	12.9	12.3	11.8	11.6	11.0	10.3	7.1	6.7	6.3	6.0	5.8	5.4	4.9	4.3	3.8	3.2
HI PR	372	356	343	328	320	314	302	290	277	265	254	248	244	235	226	216	209	201
LO PR	133	123	115	106	100	96	89	79	71	64	56	52	50	42	37	31	27	21

High pressure is measured at the liquid service valve (the smaller valve).
 Low pressure is measured at the gauge port connection.
 Calculations are based on nominal CFM and 70 °F indoor dry bulb.

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

AMPS = Outdoor unit amps (comp. +fan)
 KW = Total system power

SPLIT SYSTEM HEATING PERFORMANCE

EXPANDED PERFORMANCE DATA

MODEL: G/MSZ130361B* / AR*F364216**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	42.7	40.5	38.1	35.6	34.0	32.9	30.6	28.2	26.2	24.2	22.2	21.0	20.2	18.1	16.1	14.0	12.0	9.8
Delta T	33.0	31.2	29.4	27.5	26.2	25.4	23.6	21.8	20.2	18.6	17.2	16.2	15.6	14.0	12.4	10.8	9.2	7.6
KW	3.09	3.03	2.97	2.90	2.87	2.84	2.79	2.73	2.70	2.64	2.58	2.54	2.52	2.45	2.39	2.33	2.27	2.21
AMPS	14.0	13.0	12.1	11.4	11.0	10.8	10.2	9.7	9.3	8.8	8.4	8.2	8.1	7.7	7.2	6.8	6.3	5.6
COP	4.05	3.91	3.76	3.59	3.47	3.39	3.21	3.03	2.84	2.68	2.53	2.42	2.35	2.16	1.97	1.76	1.54	1.30
EER	13.8	13.4	12.8	12.3	11.8	11.6	11.0	10.4	9.7	9.2	8.6	8.3	8.0	7.4	6.7	6.0	5.3	4.4

High pressure is measured at the liquid service valve (the smaller valve).
 Low pressure is measured at the gauge port connection.
 Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)
 KW = Total system power

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

HEATING MODE

Pressures shown are for most popular match indoor unit WITH NO FROST ON OUTDOOR COIL. Due to factors like airflow, charge, indoor coil & frost, pressures will vary significantly. Liquid (small) service valve pressures should be ± 20 psig & suction (access port) pressures should be ± 5 psig of the values listed in this chart.

Indoor Return Air Dry Bulb Temperature (°F)	Outdoor Air Dry Bulb Temperature (°F)																							
	17		22		27		32		37		42		47		52		57		62		67			
	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct		
Indoor Air Flow Rate	Liquid Valve & Compressor Suction Pressure																							
65	258	59	269	66	280	72	292	79	303	86	315	93	326	99	338	106	349	113	361	119	372	126		
70	277	59	288	66	300	72	312	79	323	86	335	92	347	99	358	106	370	112	381	119	393	126		
75	297	59	309	65	321	72	332	79	344	85	356	92	368	99	380	105	391	112	403	119	415	125		
65	249	59	260	65	271	72	282	78	293	85	304	92	315	98	326	105	337	112	349	118	360	125		
70	267	59	279	66	290	72	301	79	312	85	324	92	335	99	346	105	357	112	369	119	380	125		
75	287	59	298	66	310	73	321	79	333	86	344	93	356	99	367	106	378	112	390	119	401	126		
65	243	59	253	65	264	72	275	78	286	85	296	92	307	98	318	105	329	111	340	118	351	125		
70	261	59	272	66	283	72	294	79	305	85	315	92	326	99	337	105	348	112	359	118	370	125		
75	279	59	291	66	302	73	313	79	324	86	336	92	347	99	358	106	369	112	380	119	391	125		

EXPANDED PERFORMANCE DATA

MODEL: GSZ130363A* / AR*F364216**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	42.7	40.5	38.1	35.6	34.0	32.9	30.6	28.2	19.9	18.4	16.9	16.0	15.4	13.8	12.3	10.7	9.1	7.5
DELTA T	31.0	29.4	27.7	25.9	24.7	23.9	22.2	20.5	14.5	13.4	12.3	11.6	11.2	10.0	8.9	7.8	6.6	5.4
KW	2.90	2.84	2.79	2.73	2.70	2.68	2.63	2.58	2.42	2.37	2.32	2.29	2.27	2.22	2.17	2.12	2.07	2.02
AMPS	9.9	9.2	8.7	8.2	7.9	7.8	7.4	7.0	6.7	6.5	6.2	6.0	6.0	5.7	5.3	5.1	4.7	4.3
COP	4.32	4.17	4.00	3.81	3.68	3.60	3.41	3.21	2.41	2.27	2.14	2.05	1.99	1.82	1.65	1.48	1.29	1.08
EER	14.8	14.2	13.7	13.0	12.6	12.3	11.6	11.0	8.2	7.8	7.3	7.0	6.8	6.2	5.7	5.0	4.4	3.7

High pressure is measured at the liquid service valve (the smaller valve).
 Low pressure is measured at the gauge port connection.
 Calculations are based on nominal CFM and 70 °F indoor dry bulb.

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

AMPS = Outdoor unit amps (comp.+fan)
 KW = Total system power

HEATING MODE

Pressures shown are for most popular match indoor unit WITH NO FROST ON OUTDOOR COIL. Due to factors like airflow, charge, indoor coil & frost, pressures will vary significantly. Liquid (small) service valve pressures should be ± 20 psig & suction (access port) pressures should be ± 5 psig of the values listed in this chart.

Indoor Air Flow Rate	Indoor Return Air Dry Bulb Temperature (°F)	Outdoor Air Dry Bulb Temperature (°F)																					
		17		22		27		32		37		42		47		52		57		62		67	
		Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct
1120	65	245	58	258	64	271	71	283	78	296	85	309	91	322	98	335	105	349	112	362	119	375	125
	70	263	57	276	64	290	71	303	78	316	84	329	91	343	98	356	105	369	111	382	118	396	125
	75	282	57	296	64	309	71	323	77	337	84	350	91	364	98	377	104	391	111	404	118	417	125
1275	65	237	57	249	64	261	70	274	77	286	84	299	91	311	97	324	104	337	111	349	117	362	124
	70	254	57	267	64	280	71	293	78	305	84	318	91	331	98	344	104	357	111	369	118	382	125
	75	273	58	286	65	299	71	312	78	325	85	338	91	352	98	365	105	378	112	390	118	403	125
1430	65	231	57	243	64	255	70	267	77	279	84	291	90	304	97	316	104	328	111	341	117	353	124
	70	248	57	260	64	273	71	285	77	298	84	310	91	323	98	335	104	348	111	360	118	373	124
	75	266	58	279	64	292	71	304	78	317	85	330	91	343	98	355	105	368	112	381	118	393	125

SPLIT SYSTEM HEATING PERFORMANCE

EXPANDED PERFORMANCE DATA

MODEL: GVSZ130421A* / AR*F36421**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	50.3	47.6	44.8	41.9	40.0	38.8	36.0	33.2	29.9	27.6	25.4	24.0	23.1	20.7	18.4	16.0	13.7	11.2
DELTA T	34.5	32.6	30.7	28.7	27.4	26.6	24.7	22.8	20.5	18.9	17.4	16.5	15.9	14.2	12.6	11.0	9.4	7.7
KW	3.60	3.53	3.46	3.39	3.35	3.32	3.25	3.18	3.24	3.16	3.09	3.05	3.02	2.95	2.88	2.80	2.73	2.66
AMPS	16.9	15.6	14.5	13.6	13.1	12.9	12.1	11.5	10.9	10.4	9.9	9.7	9.5	9.0	8.4	7.9	7.2	6.4
COP	4.09	3.95	3.79	3.62	3.49	3.42	3.24	3.05	2.70	2.55	2.40	2.30	2.24	2.06	1.87	1.67	1.47	1.23
EER	14.0	13.5	12.9	12.4	11.9	11.7	11.1	10.4	9.2	8.7	8.2	7.9	7.6	7.0	6.4	5.7	5.0	4.2

High pressure is measured at the liquid service valve (the smaller valve).
 Low pressure is measured at the gauge port connection.
 Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp. +fan)
 KW = total system power

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

HEATING MODE

Pressures shown are for most popular match indoor unit WITH NO FROST ON OUTDOOR COIL. Due to factors like airflow, charge, indoor coil & frost, pressures will vary significantly. Liquid (small) service valve pressures should be ± 20 psig & suction (access port) pressures should be ± 5 psig of the values listed in this chart.

Indoor Air Flow Rate	Indoor Return Air Dry Bulb Temperature (°F)	Outdoor Air Dry Bulb Temperature (°F)																					
		Liquid Valve & Compressor Suction Pressure																					
		17	22	27	32	37	42	47	52	57	62	67											
1180	65	Liq 262	Suct 57	Liq 270	Suct 65	Liq 279	Suct 73	Liq 288	Suct 81	Liq 297	Suct 88	Liq 306	Suct 96	Liq 314	Suct 104	Liq 323	Suct 112	Liq 332	Suct 120	Liq 341	Suct 127	Liq 350	Suct 135
	70	Liq 281	Suct 57	Liq 290	Suct 65	Liq 299	Suct 73	Liq 308	Suct 80	Liq 316	Suct 88	Liq 325	Suct 96	Liq 334	Suct 104	Liq 343	Suct 111	Liq 352	Suct 119	Liq 361	Suct 127	Liq 370	Suct 135
	75	Liq 301	Suct 57	Liq 310	Suct 65	Liq 319	Suct 72	Liq 328	Suct 80	Liq 337	Suct 88	Liq 346	Suct 96	Liq 355	Suct 103	Liq 364	Suct 111	Liq 372	Suct 119	Liq 381	Suct 127	Liq 390	Suct 134
1350	65	Liq 253	Suct 57	Liq 261	Suct 65	Liq 270	Suct 72	Liq 278	Suct 80	Liq 287	Suct 88	Liq 295	Suct 95	Liq 304	Suct 103	Liq 312	Suct 111	Liq 321	Suct 118	Liq 330	Suct 126	Liq 338	Suct 134
	70	Liq 271	Suct 57	Liq 280	Suct 65	Liq 289	Suct 73	Liq 297	Suct 80	Liq 306	Suct 88	Liq 314	Suct 96	Liq 323	Suct 103	Liq 331	Suct 111	Liq 340	Suct 119	Liq 348	Suct 127	Liq 357	Suct 134
	75	Liq 291	Suct 58	Liq 300	Suct 65	Liq 308	Suct 73	Liq 317	Suct 81	Liq 326	Suct 89	Liq 334	Suct 96	Liq 343	Suct 104	Liq 351	Suct 112	Liq 360	Suct 119	Liq 368	Suct 127	Liq 377	Suct 135
1520	65	Liq 246	Suct 57	Liq 255	Suct 64	Liq 263	Suct 72	Liq 271	Suct 80	Liq 279	Suct 88	Liq 288	Suct 95	Liq 296	Suct 103	Liq 305	Suct 111	Liq 313	Suct 118	Liq 321	Suct 126	Liq 330	Suct 134
	70	Liq 265	Suct 57	Liq 273	Suct 65	Liq 281	Suct 73	Liq 290	Suct 80	Liq 298	Suct 88	Liq 306	Suct 96	Liq 315	Suct 103	Liq 323	Suct 111	Liq 331	Suct 119	Liq 340	Suct 126	Liq 348	Suct 134
	75	Liq 284	Suct 58	Liq 292	Suct 65	Liq 301	Suct 73	Liq 309	Suct 81	Liq 318	Suct 88	Liq 326	Suct 96	Liq 334	Suct 104	Liq 343	Suct 112	Liq 351	Suct 119	Liq 359	Suct 127	Liq 367	Suct 135

SPLIT SYSTEM HEATING PERFORMANCE

EXPANDED PERFORMANCE DATA

MODEL: G/SZ130481A* / AR*F48601**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	55.3	52.4	49.3	46.1	44.0	42.6	39.6	36.5	33.6	31.1	28.6	27.0	26.0	23.3	20.7	18.0	15.4	12.6
DELTA T	32.0	30.3	28.5	26.7	25.5	24.7	22.9	21.1	19.5	18.0	16.5	15.6	15.0	13.5	12.0	10.4	8.9	7.3
KW	3.93	3.87	3.80	3.73	3.69	3.66	3.59	3.52	3.37	3.30	3.23	3.19	3.17	3.10	3.04	2.97	2.90	2.84
AMPS	18.2	16.8	15.7	14.8	14.3	14.0	13.2	12.5	12.0	11.4	10.9	10.6	10.5	9.9	9.3	8.7	8.1	7.3
COP	4.11	3.96	3.80	3.62	3.49	3.41	3.23	3.03	2.93	2.76	2.59	2.47	2.40	2.20	1.99	1.78	1.55	1.30
EER	14.1	13.5	13.0	12.4	11.9	11.7	11.0	10.4	10.0	9.4	8.8	8.5	8.2	7.5	6.8	6.1	5.3	4.4

MODEL: GSZ130483A* / AR*F486016**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	55.3	52.4	49.3	46.1	44.0	42.6	39.6	36.5	33.6	31.1	28.6	27.0	26.0	23.3	20.7	18.0	15.4	12.6
DELTA T	32.0	30.3	28.5	26.7	25.5	24.7	22.9	21.1	19.5	18.0	16.5	15.6	15.0	13.5	12.0	10.4	8.9	7.3
KW	3.94	3.87	3.80	3.72	3.68	3.65	3.58	3.51	3.49	3.42	3.34	3.30	3.27	3.20	3.12	3.05	2.98	2.90
AMPS	11.1	10.3	9.7	9.1	8.8	8.6	8.2	7.8	7.5	7.2	6.8	6.7	6.6	6.3	5.9	5.6	5.2	4.7
COP	4.10	3.96	3.80	3.62	3.50	3.42	3.24	3.05	2.82	2.66	2.50	2.39	2.33	2.14	1.94	1.73	1.51	1.27
EER	14.0	13.5	13.0	12.4	11.9	11.7	11.1	10.4	9.6	9.1	8.6	8.2	7.9	7.3	6.6	5.9	5.2	4.3

High pressure is measured at the liquid service valve (the smaller valve).
 Low pressure is measured at the gauge port connection.
 Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp. +fan)
 KW = Total system power

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

See Heating Mode chart on following page. Chart applies to GSZ130481A, GSZ130483A & GSZ130484A.

SPLIT SYSTEM HEATING PERFORMANCE

EXPANDED PERFORMANCE DATA

MODEL: GSZ130484A* / AR*F486016**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	55.3	52.4	49.3	46.1	44.0	42.6	39.6	36.5	33.6	31.1	28.6	27.0	26.0	23.3	20.7	18.0	15.4	12.6
DELTA T	32.0	30.3	28.5	26.7	25.5	24.7	22.9	21.1	19.5	18.0	16.5	15.6	15.0	13.5	12.0	10.4	8.9	7.3
KW	3.94	3.87	3.80	3.73	3.68	3.65	3.58	3.51	3.49	3.42	3.34	3.30	3.27	3.20	3.12	3.05	2.98	2.90
AMPS	6.1	5.7	5.4	5.1	4.9	4.8	4.6	4.4	4.2	4.0	3.8	3.8	3.7	3.5	3.3	3.2	3.0	2.7
COP	4.10	3.96	3.80	3.62	3.50	3.42	3.24	3.05	2.82	2.66	2.50	2.39	2.33	2.14	1.94	1.73	1.51	1.27
EER	14.0	13.5	13.0	12.4	11.9	11.7	11.1	10.4	9.6	9.1	8.6	8.2	7.9	7.3	6.6	5.9	5.2	4.3

High pressure is measured at the liquid service valve (the smaller valve).
 Low pressure is measured at the gauge port connection.
 Calculations are based on nominal CFM and 70 °F indoor dry bulb.

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

AMPS = Outdoor unit amps (comp.+fan)
 KW = Total system power

HEATING MODE

Pressures shown are for most popular match indoor unit WITH NO FROST ON OUTDOOR COIL. Due to factors like airflow, charge, indoor coil & frost, pressures will vary significantly. Liquid (small) service valve pressures should be ± 20 psig & suction (access port) pressures should be ± 5 psig of the values listed in this chart.

Indoor Air Flow Rate	Indoor Return Air Dry Bulb Temperature (°F)	Outdoor Air Dry Bulb Temperature (°F)																					
		Liquid Valve & Compressor Suction Pressure																					
		17		22		27		32		37		42		47		52		57		62		67	
1400	65	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct
		257	60	270	67	283	74	296	82	309	89	323	96	336	103	349	111	362	118	376	125	389	133
	70	276	60	289	67	303	74	316	81	330	89	343	96	357	103	370	110	384	118	397	125	411	132
1600	65	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct
		296	59	310	67	324	74	338	81	351	88	365	96	379	103	393	110	406	117	420	125	434	132
	75	248	59	261	66	273	74	286	81	299	88	312	95	324	102	337	110	350	117	363	124	376	131
1800	65	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct
		267	60	280	67	293	74	306	81	319	88	332	96	345	103	358	110	371	117	384	125	397	132
	75	286	60	299	67	313	75	326	82	340	89	353	96	366	103	379	111	393	118	406	125	419	132
1800	65	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct
		242	59	254	66	267	74	279	81	291	88	304	95	316	102	329	110	341	117	354	124	367	131
	70	260	60	273	67	285	74	298	81	311	88	323	96	336	103	349	110	362	117	374	124	387	132
1800	75	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct
		279	60	292	67	305	74	318	82	331	89	344	96	357	103	370	111	383	118	396	125	408	132
	75	279	60	292	67	305	74	318	82	331	89	344	96	357	103	370	111	383	118	396	125	408	132

Heating Mode chart applies to GSZ130481A, GSZ130483A & GSZ130484A.

EXPANDED PERFORMANCE DATA

SPLIT SYSTEM HEATING PERFORMANCE

MODEL: G/VSZ130601A* / AR*F48601**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	72.9	69.0	65.0	60.7	58.0	56.2	52.2	48.1	44.9	41.4	38.1	36.0	34.7	31.1	27.6	24.0	20.5	16.8
DELTA T	37.5	35.5	33.4	31.2	29.8	28.9	26.9	24.8	23.1	21.3	19.6	18.5	17.8	16.0	14.2	12.4	10.6	8.6
KW	5.21	5.11	5.01	4.92	4.86	4.82	4.72	4.63	4.66	4.56	4.46	4.40	4.36	4.26	4.16	4.06	3.96	3.86
AMPS	24.0	22.2	20.7	19.5	18.8	18.4	17.3	16.4	15.7	15.0	14.2	13.9	13.7	13.0	12.1	11.3	10.5	9.4
COP	4.10	3.95	3.79	3.62	3.49	3.41	3.23	3.05	2.82	2.66	2.50	2.40	2.33	2.14	1.94	1.73	1.52	1.28
EER	14.0	13.5	13.0	12.4	11.9	11.7	11.1	10.4	9.6	9.1	8.6	8.2	8.0	7.3	6.6	5.9	5.2	4.4

MODEL: GSZ130603A* / AR*F486016**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	72.9	69.0	65.0	60.7	58.0	56.2	52.2	48.1	44.9	41.4	38.1	36.0	34.7	31.1	27.6	24.0	20.5	16.8
DELTA T	37.5	35.5	33.4	31.2	29.8	28.9	26.9	24.8	23.1	21.3	19.6	18.5	17.8	16.0	14.2	12.4	10.6	8.6
KW	5.21	5.11	5.01	4.91	4.86	4.81	4.72	4.62	4.65	4.55	4.45	4.39	4.34	4.24	4.14	4.04	3.94	3.84
AMPS	13.1	12.2	11.4	10.7	10.3	10.1	9.5	9.0	8.6	8.2	7.8	7.7	7.6	7.2	6.7	6.3	5.8	5.2
COP	4.10	3.95	3.79	3.62	3.50	3.42	3.24	3.05	2.82	2.67	2.51	2.40	2.34	2.15	1.95	1.74	1.53	1.28
EER	14.0	13.5	13.0	12.4	11.9	11.7	11.1	10.4	9.6	9.1	8.6	8.2	8.0	7.3	6.7	6.0	5.2	4.4

High pressure is measured at the liquid service valve (the smaller valve).

Low pressure is measured at the gauge port connection.

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

AMPS = Outdoor unit amps (comp. +fan)
KW = Total system power

See Heating Mode chart on following page. Chart applies to G/VSZ130601A, GSZ130603A & GSZ130604A.

SPLIT SYSTEM HEATING PERFORMANCE

EXPANDED PERFORMANCE DATA

MODEL: GSZ130604A* / AR*F486016**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	72.9	69.0	65.0	60.7	58.0	56.2	52.2	48.1	44.9	41.4	38.1	36.0	34.7	31.1	27.6	24.0	20.5	16.8
DELTA T	37.5	35.5	33.4	31.2	29.8	28.9	26.9	24.8	23.1	21.3	19.6	18.5	17.8	16.0	14.2	12.4	10.6	8.6
KW	5.21	5.11	5.01	4.91	4.86	4.81	4.72	4.62	4.65	4.55	4.45	4.39	4.34	4.24	4.14	4.04	3.94	3.84
AMPS	6.5	6.1	5.7	5.4	5.2	5.1	4.8	4.6	4.4	4.2	4.1	4.0	3.9	3.7	3.5	3.3	3.1	2.8
COP	4.10	3.95	3.79	3.62	3.50	3.42	3.24	3.05	2.82	2.67	2.51	2.40	2.34	2.15	1.95	1.74	1.53	1.28
EER	14.0	13.5	13.0	12.4	11.9	11.7	11.1	10.4	9.6	9.1	8.6	8.2	8.0	7.3	6.7	6.0	5.2	4.4

High pressure is measured at the liquid service valve (the smaller valve).
 Low pressure is measured at the gauge port connection.
 Calculations are based on nominal CFM and 70 °F indoor dry bulb.

AMPS = Outdoor unit amps (comp.+fan)
 KW = Total system power

*Note: Shaded area is AHRI Rating Conditions at 47° outdoor ambient temperature

HEATING MODE

Pressures shown are for most popular match indoor unit WITH NO FROST ON OUTDOOR COIL. Due to factors like airflow, charge, indoor coil & frost, pressures will vary significantly. Liquid (small) service valve pressures should be ± 20 psig & suction (access port) pressures should be ± 5 psig of the values listed in this chart.

Indoor Return Air Dry Bulb Temperature (°F)	Outdoor Air Dry Bulb Temperature (°F)																								
	Liquid Valve & Compressor Suction Pressure																								
	17	22	27	32	37	42	47	52	57	62	67	17	22	27	32	37	42	47	52	57	62	67			
Indoor Air Flow Rate																									
1580	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	
	257	58	279	66	301	73	324	81	346	88	369	95	391	103	414	110	436	118	459	125	482	133	509	132	
	276	58	299	66	323	73	346	80	369	88	392	95	416	103	439	110	462	117	485	125	509	132	537	132	
1800	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	
	296	58	320	65	345	73	369	80	393	87	417	95	441	102	465	110	489	117	513	125	537	132	566	132	
	248	58	270	65	291	72	313	80	334	87	356	95	378	102	400	109	422	117	444	124	466	132	491	132	
2030	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	
	267	58	289	65	312	73	334	80	357	88	379	95	402	102	424	110	446	117	469	125	491	132	519	132	
	286	59	310	66	333	73	357	81	380	88	403	96	426	103	450	110	473	118	496	125	519	132	545	131	
Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct	Liq	Suct
242	58	263	65	284	72	305	80	326	87	347	95	368	102	390	109	411	117	433	124	454	131	479	132		
260	58	282	65	304	73	326	80	348	88	370	95	392	102	413	110	435	117	457	124	479	132	506	132		
279	58	302	66	325	73	348	81	370	88	393	95	416	103	438	110	461	118	483	125	506	132	532	132		

Heating Mode chart applies to G/VSZ130601A, GSZ130603A & GSZ130604A.

PERFORMANCE DATA

PERFORMANCE TEST

All data based upon listed indoor dry bulb temperature. .00 inches external static pressure on coil of outdoor section. Indoor air cubic feet per minute (CFM) as listed in the Performance Data Sheets:

If conditions vary from this, results will change as follows:

1. As indoor dry bulb temperatures increase, a slight increase will occur in indoor air temperature drop (Delta T). Low and high side pressures and power will not change.
2. As indoor CFM decreases, a slight increase will occur in indoor temperature drop (Delta T). A slight decrease will occur in low and high side pressures and power.

A properly operating unit should be within plus or minus **2 degrees** of the subcooling value shown in the Heat Pump Specifications.

A properly operating unit should be within plus or minus **3 degrees** of the typical (Delta T) value shown.

A properly operating unit should be within plus or minus **7 PSIG** of the **HI PR** shown.

A properly operating unit should be within plus or minus **3 PSIG** of the **LO PR** shown.

A properly operating unit should be within plus or minus **3 Amps** of the typical value shown.

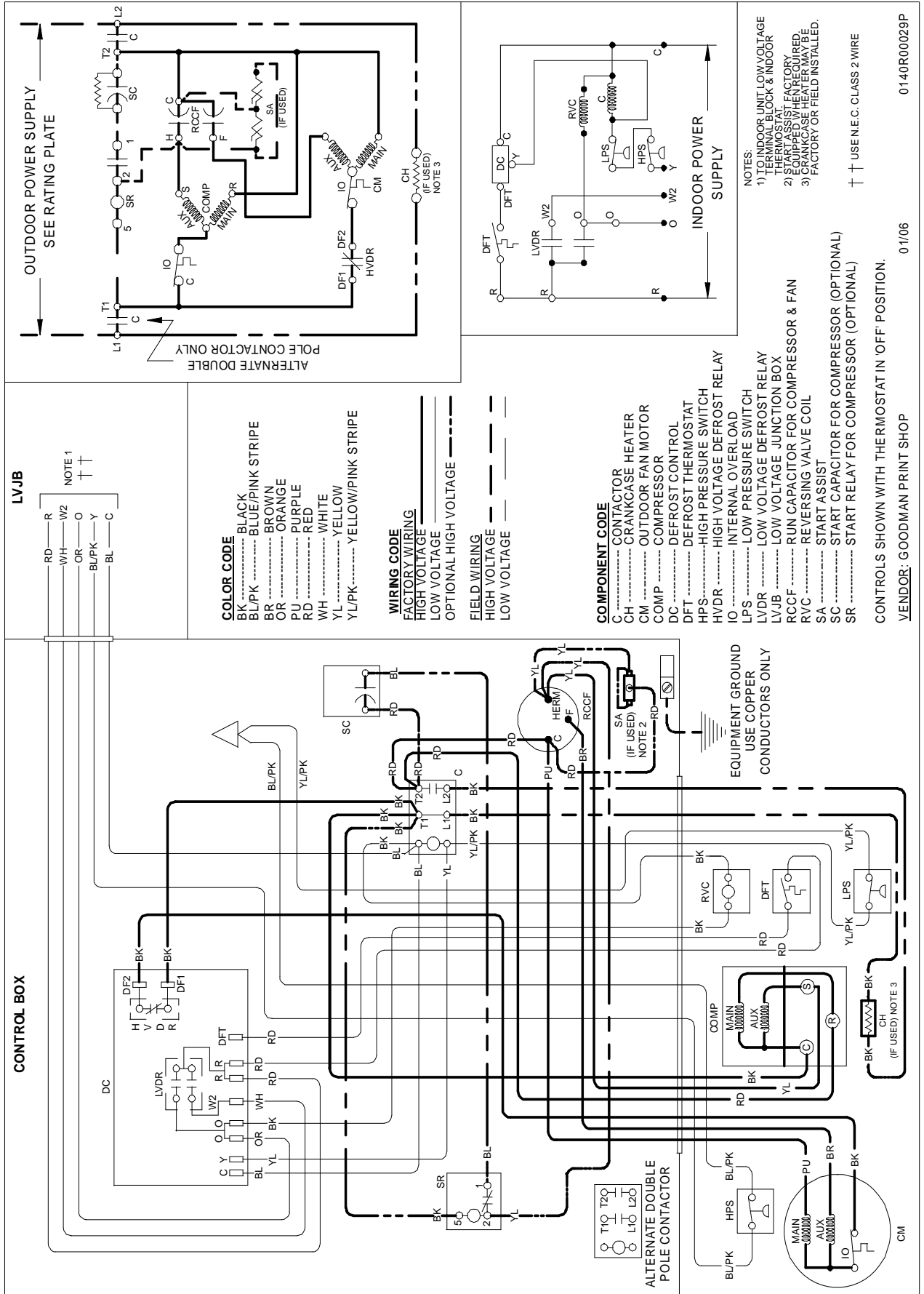
NOTE: Pressures are measured at the liquid and suction service valve ports.

WIRING DIAGRAMS

G/VSZ130[18-60]1[A/B]*



WARNING
HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



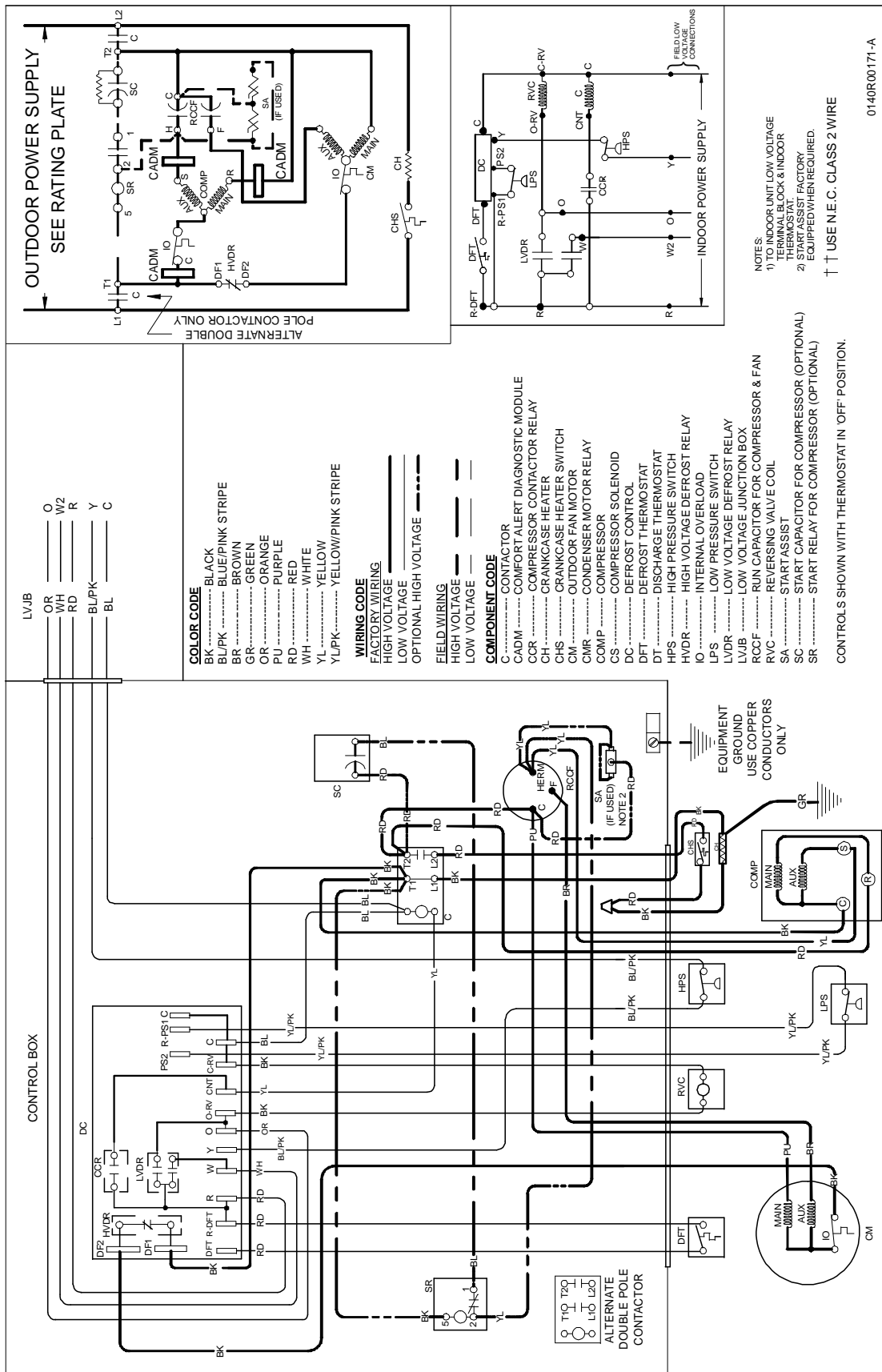
Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

WIRING DIAGRAMS

GSZ130181AC, GSZ130241BB, GSZ130301AD, GSZ130361BB
 GSZ130421AC, GSZ130481AC, GSZ130601AC
 VSZ130181AB, VSZ130241BB, VSZ130301AC, VSZ130361BB
 VSZ130421AB, VSZ130481AB, VSZ130601AB



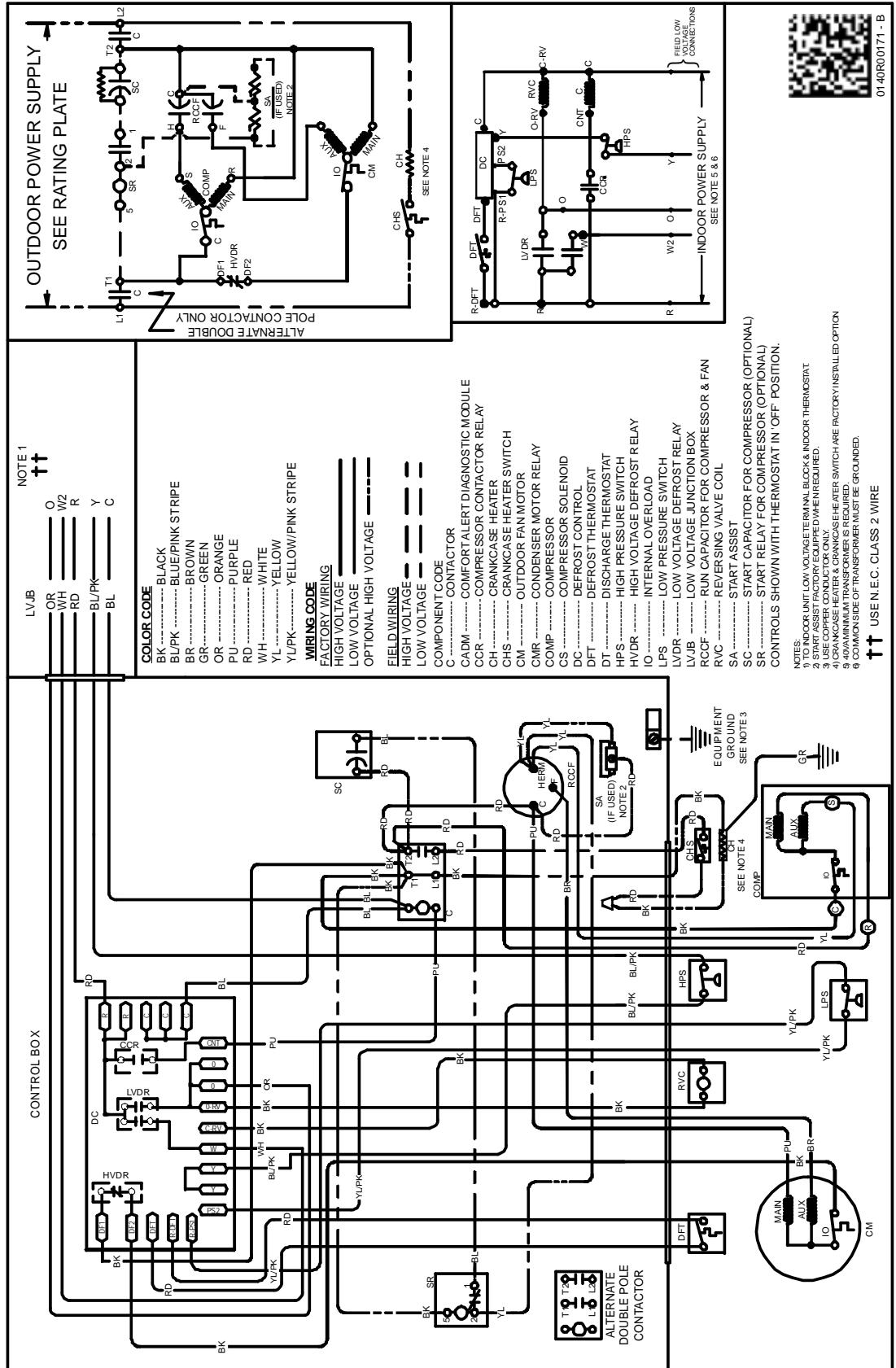
WARNING
 HIGH VOLTAGE!
 DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

WIRING DIAGRAMS GSZ130181AD, GSZ130241[B*/C*], GSZ130301A[E/F], GSZ130361BB VSZ130181A[C/D], VSZ130241B[B/C], VSZ130301A[D/E], VSZ130361B[B/C], VSZ130421A[C/D], VSZ130481A[C/D], VSZ130601AC

WARNING
HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

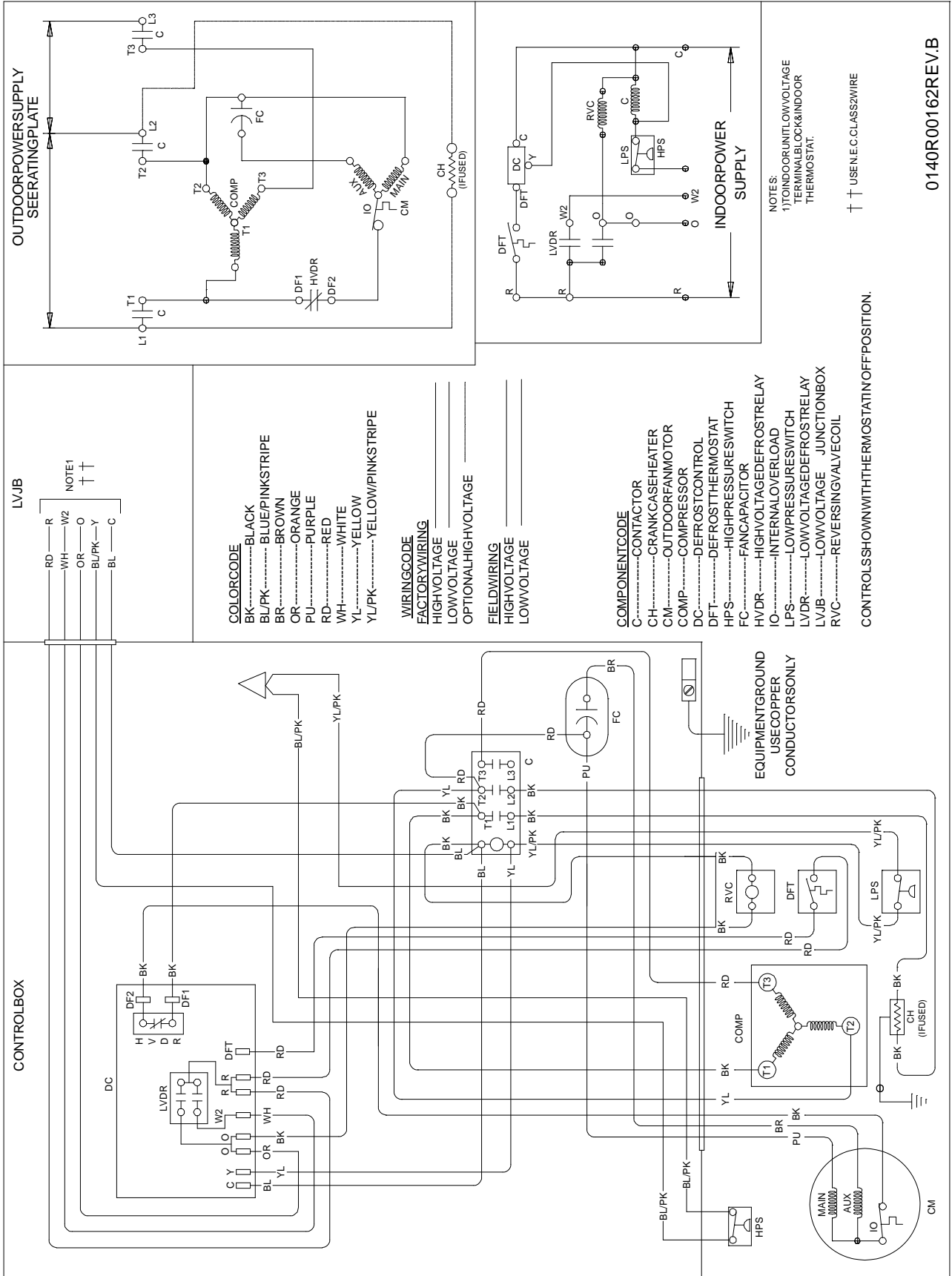


01-40R00171 - B

Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.



WARNING
HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

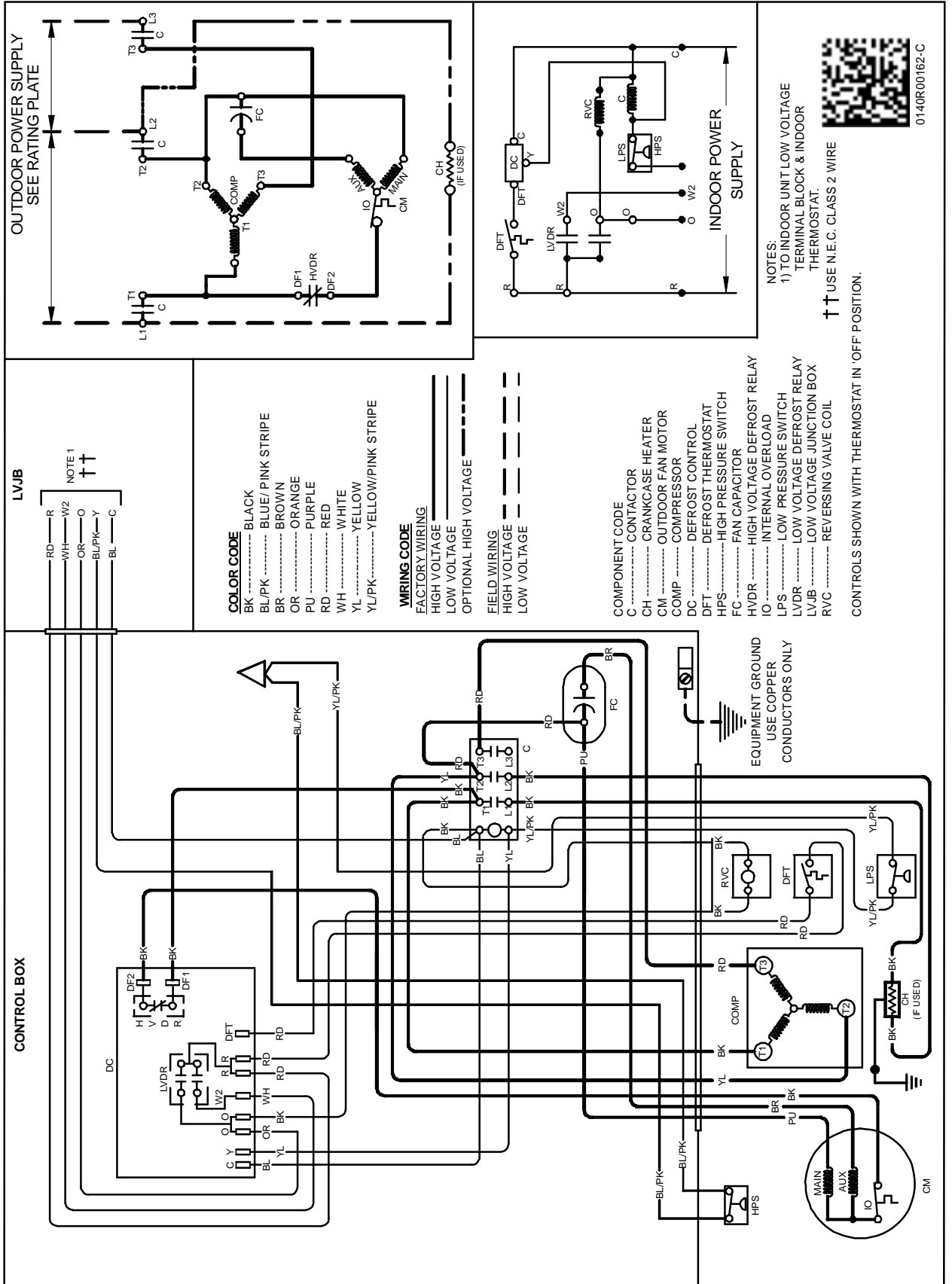


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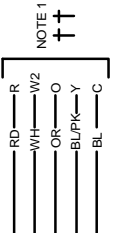
Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.



WARNING
HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



LVJB



NOTE 1
↑↑

- COLOR CODE**
- BK BLACK
 - BL/PK BLUE/PINK STRIPE
 - BR BROWN
 - OR ORANGE
 - PU PURPLE
 - RD RED
 - WH WHITE
 - YL YELLOW
 - YL/PK YELLOW/PINK STRIPE
- WIRING CODE**
- SOLID LINE FACTORY WIRING
 - DASHED LINE HIGH VOLTAGE
 - DASHED LINE WITH DOTS LOW VOLTAGE
 - DASHED LINE WITH DOTS AND STRIPE OPTIONAL HIGH VOLTAGE
- FIELD WIRING**
- SOLID LINE HIGH VOLTAGE
 - DASHED LINE LOW VOLTAGE

- COMPONENT CODE**
- C CONTACTOR
 - CH CRANKCASE HEATER
 - CM OUTDOOR FAN MOTOR
 - COMP COMPRESSOR
 - DC DEFROST CONTROL
 - DFT DEFROST THERMOSTAT
 - HPS HIGH PRESSURE SWITCH
 - FC FAN CAPACITOR
 - HVDR HIGH VOLTAGE DEFROST RELAY
 - IO INTERNAL OVERLOAD
 - LPS LOW PRESSURE SWITCH
 - LVDR LOW VOLTAGE DEFROST RELAY
 - LVJB LOW VOLTAGE JUNCTION BOX
 - RVC REVERSING VALVE COIL

NOTES:
1) TO INDOOR UNIT LOW VOLTAGE TERMINAL BLOCK & INDOOR THERMOSTAT.
↑↑ USE N.E.C. CLASS 2 WIRE



0140R00162-C

Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.