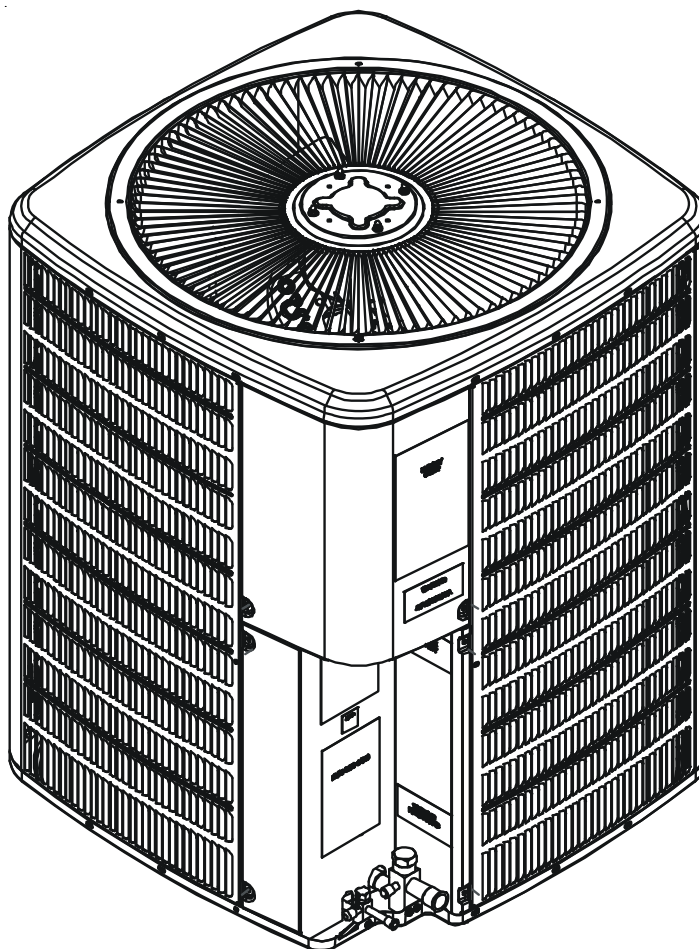


Goodman[®] TECHNICAL MANUAL

GSX 16 SEER Condensing Units

- 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.

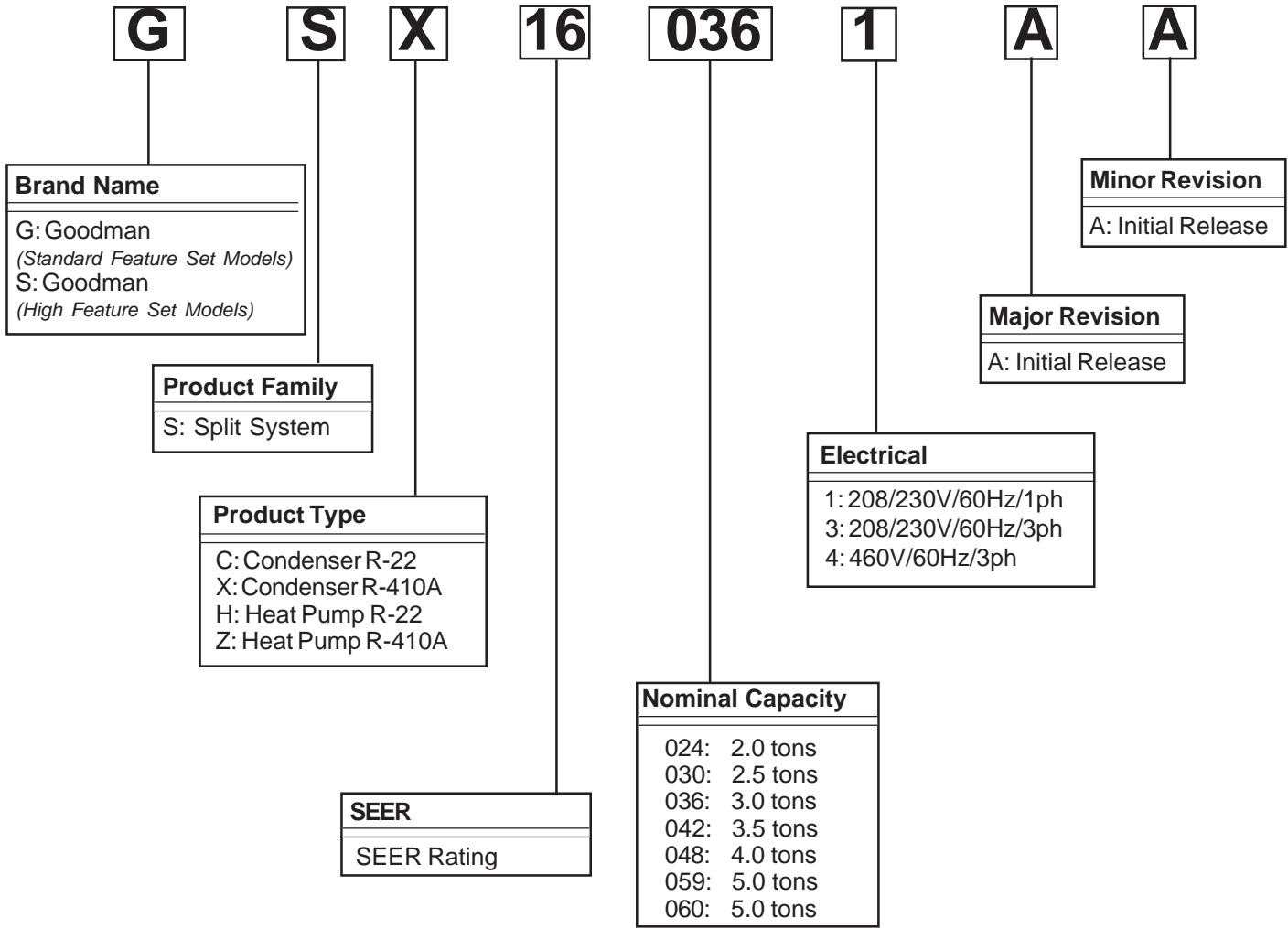


This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures or services performed by an unqualified person.


RT6114008r5
August 2014


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** ONLY individuals meeting (at a minimum) the requirements of an "entry level technician" as specified by the Air Conditioning, Heating, and Refrigeration Institute (AHRI) may use this information. 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.

GSX160181F*
GSX160241F*
GSX160301F*
GSX160361F*
GSX160421F*
GSX160481F*
GSX160601F*
GSX106611F*

** 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

GSX16 models are available in 1.5, 2, 2.5, 3, 3.5, 4 and 5 ton sizes and use R-410A refrigerant. They are designed for 208/230 volt single phase applications.

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. GSX 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.

GSX16 models use the Copeland Scroll "Ultratech" Series compressors which are specifically designed for R-410A refrigerant. There are a number of design characteristics which are different from the traditional reciprocating and/or scroll compressors.

"Ultratech" Series scroll compressors 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.

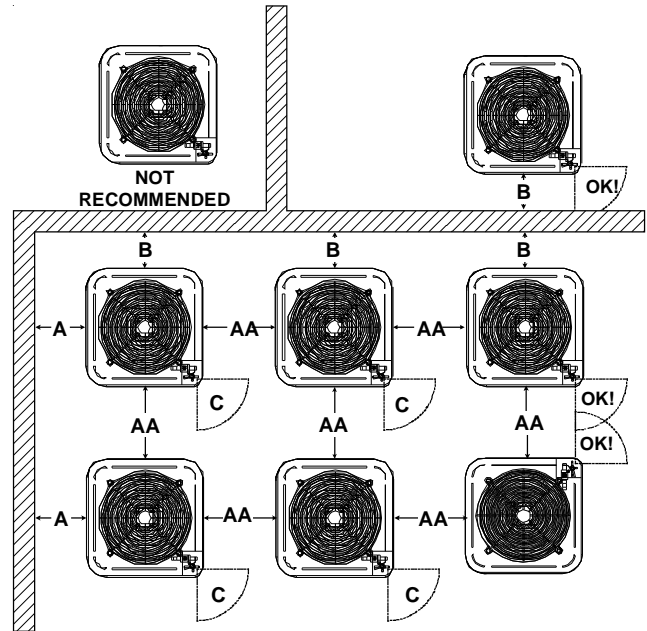
Operating pressures and amp draws may differ from standard reciprocating and/or scroll compressors. This information may be found in the "Cooling Performance Data" section.

the obstruction(s). The specified dimensions meet requirements for air circulation only. Consult all appropriate regulatory codes prior to determining final clearances.

Another important consideration in selecting a location for the unit(s) is the angle to obstructions. Either side adjacent the valves can be placed toward the structure provided the side away from the structure maintains minimum service clearance. Corner installations are strongly discouraged.

DO NOT locate the unit:

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



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

Model	Dimensions - W x D x H
GSX160181F*	29 x 29 x 32 1/4
GSX160241F*	29 x 29 x 32 1/4
GSX160301F*	29 x 29 x 36 1/4
GSX160361F*	29 x 29 x 38 1/4
GSX160421F*	35 1/2 x 35 1/2 x 36 1/4
GSX160481F* GSX160601F* GSX160611F*	35 1/2 x 35 1/2 x 38 1/4

⚠ WARNING

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

Special consideration must be given to location of the condensing unit(s) in regard to structures, obstructions, other units, and any/all other factors that may interfere with air circulation. Where possible, the top of the unit should be completely unobstructed; however, if vertical conditions require placement beneath an obstruction **there should be a minimum of 60 inches between the top of the unit and**

CONDENSING UNIT SPECIFICATIONS

GSX160181F* - GSX160361F*

	GSX160181F*	GSX160241F*	GSX160301F*	GSX160361F*
Cooling Capacity, BTUH	18,000	24,000	30,000	36,000
Decibels	73.5	73.5	73.5	73.5
Compressor				
R.L. Amps	9.0	13.5	12.8	14.1
L.R. Amps	46.0	58.3	64.0	77.0
Condenser Fan Motor				
Horsepower	1/6	1/6	1/6	1/6
F.L. Amps	1.10	1.10	1.10	1.10
Liquid Line, Inches O.D.*	3/8"	3/8"	3/8"	3/8"
Suction Line, Inches O.D.*	7/8"	3/4"	3/4"	7/8"
Liquid Valve Connection, Inches O.D.*	3/8"	3/8"	3/8"	3/8"
Suction Valve Connection, Inches O.D.*	7/8"	3/4"	3/4"	3/4"
Valve Connection Type	Sweat	Sweat	Sweat	Sweat
Refrigerant Charge	78 **	78 **	91 **	94 **
Power Supply	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
Minimum Circuit Ampacity ⁽¹⁾	12.4	18.0	17.1	18.7
Maximum Overcurrent Device ⁽²⁾	20	30	30	30
Min/Max Volts	197 / 253	197 / 253	197 / 253	197 / 253
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
Approximate Shipping Weight	163	160	167	180

* 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).
- 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.

**** Units produced with serial date range of 1405 and later will have the revised refrigerant charge listed in the Unit Specifications. Units produced prior to 1405 are approved for the revised charge shown in the specs.**

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.

CONDENSING UNIT SPECIFICATIONS

GSX160421F* - GSX160611F*

	GSX160421F*	GSX160481F*	GSX160601F*	GSX160611F*
Cooling Capacity, BTUH	42,000	48,000	60,000	57,000
Decibels	75.0	75.0	75.0	75.0
Compressor				
R.L. Amps	17.9	17.9	21.4	25.0
L.R. Amps	112.0	112.0	135.0	134.0
Condenser Fan Motor				
Horsepower	1/6	1/4	1/3	1/4
F.L. Amps	1.10	1.50	2.80	1.50
Liquid Line, Inches O.D.*	3/8"	3/8"	3/8"	3/8"
Suction Line, Inches O.D.*	7/8"	7/8"	7/8"	7/8"
Liquid Valve Connection, Inches O.D.*	3/8"	3/8"	3/8"	3/8"
Suction Valve Connection, Inches O.D.*	3/4"	7/8"	7/8"	7/8"
Valve Connection Type	Sweat	Sweat	Sweat	Sweat
Refrigerant Charge	110 **	121 **	240 **	125 **
Power Supply	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
Minimum Circuit Ampacity ⁽¹⁾	23.9	23.9	29.6	32.8
Maximum Overcurrent Device ⁽²⁾	40	40	50	50
Min/Max Volts	197 / 253	197 / 253	197 / 253	197 / 253
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
Approximate Shipping Weight	228	241	301	314

* 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).
- 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.

**** Units produced with serial date range of 1405 and later will have the revised refrigerant charge listed in the Unit Specifications. Units produced prior to 1405 are approved for the revised charge shown in the specs.**

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

GSX160181F*

MODEL: GSX160181F*-CA*F3636*6D*+TXV EXPANDED PERFORMANCE DATA

COOLING OPERATION
3/42013

Table with columns for IDB*, Airflow, and various performance metrics (NetCap, S/T, Delta T, System KW, OD amps, HI PR, LO PR) across different conditions (65, 75, 85, 95, 105, 115). The table is organized into sections for models 525, 650, 675, and 75.

* Entering Indoor Dry Bulb Temperature NOTE: Shaded area is ACCA (IWA) conditions Goodman Manufacturing Company, L.P. reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring

COOLING PERFORMANCE DATA

GSX160181F*

MODEL: GSX160181F*-CA*F3636*6D*-TXV EXPANDED PERFORMANCE DATA

COOLING OPERATION
3/4/2013

IDB*	Airflow	Outdoor Ambient Temperature																							
		65				75				85				95											
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71								
80	NetCap	16.4	16.7	17.9	19.1	16.0	16.3	17.4	18.6	15.6	15.9	17.0	18.2	15.2	15.6	16.6	17.8	14.5	14.8	15.8	16.9	13.4	13.7	14.6	15.6
	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	0.91	0.74	0.55	0.98	0.92	0.75	0.56
	Delta T	2.4	2.3	2.0	1.6	2.5	2.4	2.1	1.6	2.5	2.4	2.1	1.6	2.5	2.4	2.1	1.7	2.5	2.4	2.0	1.6	2.3	2.2	1.9	1.5
	System KW	1.20	1.22	1.25	1.28	1.27	1.30	1.33	1.37	1.34	1.37	1.40	1.44	1.40	1.43	1.47	1.51	1.45	1.48	1.52	1.57	1.49	1.52	1.57	1.61
	OD amps	4.3	4.4	4.6	4.7	4.6	4.7	4.9	5.1	5.0	5.1	5.3	5.5	5.3	5.5	5.6	5.8	5.7	5.8	6.0	6.2	6.0	6.1	6.3	6.5
	HI PR	203	219	231	241	228	245	259	270	259	279	295	307	295	318	336	354	332	358	378	394	367	395	417	435
	LO PR	104	110	120	128	109	116	127	135	114	121	132	141	119	127	139	148	125	133	145	155	129	138	150	160
	NetCap	17.7	18.1	19.4	20.7	17.3	17.7	18.9	20.2	16.9	17.3	18.5	19.7	16.5	16.8	18.0	19.2	15.7	16.0	17.1	18.3	14.5	14.8	15.8	16.9
	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
	Delta T	2.2	2.1	1.8	1.5	2.2	2.1	1.9	1.5	2.2	2.2	1.9	1.5	2.3	2.2	1.9	1.5	2.2	2.1	1.9	1.5	2.1	2.0	1.7	1.4
System KW	1.22	1.24	1.28	1.31	1.30	1.32	1.36	1.40	1.37	1.40	1.43	1.48	1.43	1.46	1.50	1.54	1.48	1.51	1.56	1.60	1.53	1.56	1.60	1.65	
OD amps	4.4	4.5	4.7	4.8	4.8	4.9	5.0	5.2	5.1	5.3	5.4	5.6	5.5	5.6	5.8	6.0	5.8	5.9	6.1	6.4	6.1	6.3	6.5	6.7	
HI PR	209	225	238	248	235	253	267	279	267	288	304	317	304	328	346	361	343	369	389	406	378	407	430	449	
LO PR	107	114	124	132	113	120	131	140	117	125	136	145	123	131	143	152	129	137	150	160	133	142	155	165	
NetCap	17.7	18.1	19.4	20.7	17.3	17.7	18.9	20.2	16.9	17.3	18.5	19.7	16.5	16.8	18.0	19.2	15.7	16.0	17.1	18.3	14.5	14.8	15.8	16.9	
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	
Delta T	2.1	2.0	1.8	1.4	2.2	2.1	1.8	1.4	2.2	2.1	1.8	1.4	2.2	2.1	1.8	1.4	2.1	2.1	1.8	1.4	2.0	1.9	1.7	1.3	
System KW	1.22	1.24	1.28	1.31	1.30	1.32	1.36	1.40	1.37	1.40	1.43	1.48	1.43	1.46	1.50	1.54	1.48	1.51	1.56	1.60	1.53	1.56	1.60	1.65	
OD amps	4.4	4.5	4.7	4.8	4.8	4.9	5.0	5.2	5.1	5.3	5.4	5.6	5.5	5.6	5.8	6.0	5.8	5.9	6.1	6.4	6.1	6.3	6.5	6.7	
HI PR	209	225	238	248	235	253	267	279	267	288	304	317	304	328	346	361	343	369	389	406	378	407	430	449	
LO PR	107	114	124	132	113	120	131	140	117	125	136	145	123	131	143	152	129	137	150	160	133	142	155	165	
NetCap	18.0	18.4	19.3	20.5	17.6	18.0	18.8	20.1	17.2	17.5	18.4	19.6	16.8	17.1	17.9	19.1	15.9	16.2	17.0	18.2	14.8	15.0	15.8	16.8	
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	
Delta T	2.4	2.3	2.2	1.9	2.4	2.4	2.2	1.9	2.4	2.4	2.2	1.9	2.4	2.4	2.2	1.9	2.3	2.3	2.2	1.9	2.1	2.1	2.1	1.8	
System KW	1.23	1.25	1.29	1.32	1.31	1.33	1.37	1.41	1.38	1.41	1.44	1.49	1.44	1.47	1.51	1.55	1.49	1.52	1.57	1.61	1.54	1.57	1.62	1.66	
OD amps	4.5	4.6	4.7	4.9	4.8	4.9	5.1	5.2	5.2	5.3	5.5	5.7	5.5	5.7	5.8	6.0	5.9	6.0	6.2	6.4	6.2	6.3	6.5	6.8	
HI PR	212	228	240	251	237	255	270	281	270	291	307	320	308	331	349	364	346	372	393	410	382	411	434	453	
LO PR	108	115	125	133	114	121	132	141	118	126	137	146	124	132	144	154	130	139	151	161	135	143	157	167	
NetCap	18.0	18.4	19.3	20.5	17.6	18.0	18.8	20.1	17.2	17.5	18.4	19.6	16.8	17.1	17.9	19.1	15.9	16.2	17.0	18.2	14.8	15.0	15.8	16.8	
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	
Delta T	2.3	2.2	2.1	1.8	2.3	2.3	2.1	1.9	2.3	2.3	2.1	1.9	2.3	2.3	2.2	1.9	2.2	2.2	2.1	1.8	2.0	2.0	2.0	1.7	
System KW	1.23	1.25	1.29	1.32	1.31	1.33	1.37	1.41	1.38	1.41	1.44	1.49	1.44	1.47	1.51	1.55	1.49	1.52	1.57	1.61	1.54	1.57	1.62	1.66	
OD amps	4.5	4.6	4.7	4.9	4.8	4.9	5.1	5.2	5.2	5.3	5.5	5.7	5.5	5.7	5.8	6.0	5.9	6.0	6.2	6.4	6.2	6.3	6.5	6.8	
HI PR	212	228	240	251	237	255	270	281	270	291	307	320	308	331	349	364	346	372	393	410	382	411	434	453	
LO PR	108	115	125	133	114	121	132	141	118	126	137	146	124	132	144	154	130	139	151	161	135	143	157	167	

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

Goodman Manufacturing Company, L.P. reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring

COOLING PERFORMANCE DATA

GSX160241F*

MODEL: GSX160241F*-CA*F3636*6D*+TXV EXPANDED PERFORMANCE DATA

COOLING OPERATION
3/4/2013

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	NetCap	22.9	23.4	25.0	26.7	27.1	22.4	22.8	24.4	26.1	26.1	21.8	22.3	23.8	25.5	25.5	21.3	21.8	23.2	24.8	24.8	20.2	20.7	22.1	23.6	23.6	18.7	19.1	20.5	21.9	21.9
	S/T	0.86	0.81	0.66	0.49	0.51	0.90	0.84	0.68	0.51	0.52	0.92	0.86	0.70	0.52	0.54	0.95	0.89	0.72	0.54	0.56	0.98	0.92	0.75	0.56	0.58	0.99	0.93	0.76	0.57	0.57
	Delta T	2.6	2.5	2.2	1.7	1.6	2.6	2.5	2.2	1.8	1.7	2.7	2.5	2.2	1.8	1.7	2.7	2.5	2.2	1.8	1.7	2.6	2.5	2.2	1.7	1.6	2.4	2.3	2.0	1.6	1.6
	System kW	1.56	1.59	1.63	1.68	1.68	1.67	1.70	1.75	1.80	1.80	1.76	1.80	1.85	1.91	1.91	1.85	1.88	1.94	2.00	2.00	1.92	1.96	2.02	2.08	2.08	1.98	2.02	2.08	2.15	2.15
	OD amps	5.8	5.9	6.1	6.3	6.3	6.4	6.4	6.6	6.8	6.8	6.8	6.9	7.1	7.4	7.4	7.2	7.4	7.6	7.9	7.9	7.7	7.9	8.1	8.4	8.4	8.1	8.3	8.6	8.9	8.9
	HI PR	209	225	238	248	248	235	253	267	279	279	267	288	304	317	317	304	328	346	361	361	343	369	389	406	406	378	407	430	449	449
	LO PR	105	112	122	130	130	111	118	129	137	137	115	123	134	143	143	121	129	141	150	150	127	135	147	157	157	131	140	152	162	162
	NetCap	23.2	23.7	25.4	27.1	27.1	22.7	23.2	24.8	26.5	26.5	22.2	22.6	24.2	25.9	25.9	21.6	22.1	23.6	25.2	25.2	20.5	21.0	22.4	24.0	24.0	19.0	19.4	20.8	22.2	22.2
	S/T	0.90	0.84	0.68	0.51	0.53	0.93	0.87	0.71	0.53	0.54	0.95	0.89	0.73	0.54	0.56	0.98	0.92	0.75	0.56	0.58	1.00	0.96	0.78	0.58	0.60	1.00	0.96	0.78	0.59	0.59
	Delta T	2.6	2.4	2.1	1.7	1.6	2.6	2.5	2.2	1.7	1.7	2.6	2.5	2.2	1.7	1.7	2.6	2.5	2.2	1.7	1.7	2.5	2.5	2.1	1.7	1.7	2.3	2.3	2.0	1.6	1.6
System kW	1.58	1.61	1.65	1.70	1.70	1.69	1.72	1.77	1.83	1.83	1.79	1.82	1.88	1.93	1.93	1.87	1.91	1.97	2.03	2.03	1.94	1.98	2.04	2.11	2.11	2.01	2.05	2.11	2.18	2.18	
OD amps	5.9	6.0	6.2	6.4	6.4	6.3	6.5	6.7	6.9	6.9	6.9	7.0	7.3	7.5	7.5	7.3	7.5	7.7	8.0	8.0	7.8	8.0	8.2	8.5	8.5	8.2	8.4	8.7	9.0	9.0	
HI PR	213	229	242	253	253	239	257	272	283	283	272	293	309	322	322	310	333	352	367	367	348	375	396	413	413	385	414	438	456	456	
LO PR	107	114	124	132	132	113	120	131	140	140	117	125	136	145	145	123	131	143	152	152	129	137	150	160	160	133	142	155	165	165	
900	NetCap	24.1	24.6	26.3	28.1	28.1	23.5	24.0	25.6	27.4	27.4	22.9	23.4	25.0	26.8	26.8	22.4	22.9	24.4	26.1	26.1	21.3	21.7	23.2	24.8	24.8	19.7	20.1	21.5	23.0	23.0
	S/T	0.95	0.89	0.73	0.54	0.54	1.00	0.93	0.75	0.56	0.56	1.00	0.95	0.77	0.58	0.58	1.00	1.00	0.80	0.60	0.60	1.00	1.00	0.83	0.62	0.62	1.00	1.00	0.83	0.62	0.62
	Delta T	2.3	2.2	1.9	1.6	1.6	2.4	2.3	2.0	1.6	1.6	2.3	2.3	2.0	1.6	1.6	2.3	2.3	2.0	1.6	1.6	2.2	2.2	2.0	1.6	1.6	2.0	2.1	1.8	1.5	1.5
	System kW	1.60	1.63	1.68	1.73	1.73	1.71	1.75	1.80	1.85	1.85	1.81	1.85	1.90	1.96	1.96	1.90	1.94	2.00	2.06	2.06	1.97	2.01	2.08	2.14	2.14	2.04	2.08	2.14	2.21	2.21
	OD amps	6.0	6.1	6.3	6.5	6.5	6.4	6.6	6.8	7.1	7.1	7.0	7.2	7.4	7.7	7.7	7.5	7.6	7.9	8.2	8.2	7.9	8.1	8.4	8.7	8.7	8.4	8.6	8.9	9.2	9.2
	HI PR	217	234	247	258	258	244	262	277	289	289	277	299	315	329	329	316	340	359	374	374	355	383	404	421	421	393	423	446	465	465
	LO PR	109	116	126	135	135	115	122	134	142	142	120	127	139	148	148	126	134	146	155	155	132	140	153	163	163	136	145	158	168	168
	NetCap	23.3	23.7	24.9	26.5	26.5	22.7	23.2	24.3	25.9	25.9	22.2	22.6	23.7	25.3	25.3	21.7	22.1	23.1	24.7	24.7	20.6	21.0	22.0	23.4	23.4	19.1	19.4	20.4	21.7	21.7
	S/T	0.91	0.87	0.79	0.64	0.64	0.94	0.91	0.82	0.66	0.66	0.96	0.93	0.84	0.68	0.68	0.99	0.96	0.87	0.70	0.70	1.00	0.99	0.90	0.73	0.73	1.00	1.00	0.91	0.73	0.73
	Delta T	2.8	2.7	2.6	2.2	2.2	2.8	2.8	2.6	2.3	2.3	2.8	2.8	2.6	2.3	2.3	2.8	2.8	2.6	2.3	2.3	2.7	2.7	2.6	2.2	2.2	2.5	2.6	2.4	2.1	2.1
System kW	1.57	1.60	1.65	1.69	1.69	1.68	1.71	1.76	1.82	1.82	1.78	1.81	1.87	1.92	1.92	1.86	1.90	1.96	2.02	2.02	1.93	1.97	2.03	2.10	2.10	2.00	2.04	2.10	2.17	2.17	
OD amps	5.8	6.0	6.2	6.4	6.4	6.3	6.4	6.6	6.9	6.9	6.8	7.0	7.2	7.5	7.5	7.3	7.5	7.7	8.0	8.0	7.7	7.9	8.2	8.5	8.5	8.2	8.4	8.7	9.0	9.0	
HI PR	212	228	240	251	251	237	255	270	281	281	270	291	307	320	320	308	331	349	365	365	346	372	393	410	410	382	411	434	453	453	
LO PR	106	113	123	131	131	112	119	130	139	139	116	124	135	144	144	122	130	142	151	151	128	136	149	158	158	133	141	154	164	164	
85	NetCap	23.6	24.1	25.2	26.9	26.9	23.1	23.5	24.7	26.3	26.3	22.5	23.0	24.1	25.7	25.7	22.0	22.4	23.5	25.1	25.1	20.9	21.3	22.3	23.8	23.8	19.4	19.7	20.7	22.0	22.0
	S/T	0.94	0.91	0.82	0.66	0.66	0.97	0.94	0.85	0.69	0.69	1.00	0.96	0.87	0.71	0.71	1.00	0.99	0.90	0.73	0.73	1.00	1.00	0.93	0.76	0.76	1.00	1.00	0.94	0.76	0.76
	Delta T	2.7	2.7	2.5	2.2	2.2	2.8	2.7	2.6	2.2	2.2	2.8	2.7	2.6	2.2	2.2	2.7	2.7	2.6	2.2	2.2	2.6	2.6	2.5	2.2	2.2	2.4	2.4	2.1	2.1	2.1
	System kW	1.59	1.62	1.67	1.72	1.72	1.70	1.73	1.79	1.84	1.84	1.80	1.83	1.89	1.95	1.95	1.89	1.92	1.98	2.04	2.04	1.96	2.00	2.06	2.12	2.12	2.02	2.06	2.13	2.20	2.20
	OD amps	5.9	6.1	6.3	6.5	6.5	6.4	6.5	6.7	7.0	7.0	6.9	7.1	7.3	7.6	7.6	7.4	7.6	7.8	8.1	8.1	7.9	8.0	8.3	8.6	8.6	8.3	8.5	8.8	9.1	9.1
	HI PR	215	232	245	255	255	242	260	274	286	286	275	296	312	326	326	313	337	356	371	371	352	379	400	417	417	389	418	442	461	461
	LO PR	108	115	125	133	133	114	121	132	141	141	118	126	137	146	146	124	132	144	154	154	130	139	151	161	161	135	143	157	167	167
	NetCap	24.5	24.9	26.1	27.9	27.9	23.9	24.4	25.5	27.2	27.2	23.3	23.8	24.9	26.6	26.6	22.8	23.2	24.3	25.9	25.9	21.6	22.0	23.1	24.6	24.6	20.0	20.4	21.4	22.8	22.8
	S/T	1.00	0.96	0.87	0.71	0.71	1.00	1.00	0.90	0.73	0.73	1.00	1.00	0.92	0.75	0.75	1.00	1.00	0.95	0.77	0.77	1.00	1.00	0.99	0.80	0.80	1.00	1.00	1.00	0.81	0.81
	Delta T	2.5	2.5	2.3	2.0	2.0	2.4	2.5	2.3	2.0	2.0	2.4	2.4	2.4	2.0	2.0	2.3	2.4	2.4	2.0	2.0	2.2	2.3	2.3	2.0	2.0	2.0	2.1	2.2	1.9	1.9
System kW	1.61	1.64	1.69	1.74	1.74	1.73	1.76	1.81	1.87	1.87	1.83	1.86	1.92	1.98	1.98	1.91	1.95	2.01	2.08	2.08	1.99	2.03	2.09	2.16	2.16	2.05	2.10	2.16	2.23	2.23	
OD amps	6.0	6.2	6.4	6.6	6.6	6.5	6.7	6.9	7.1	7.1	7.1	7.2	7.5	7.7	7.7	7.5	7.7	8.0	8.3	8.3	8.0	8.2	8.5	8.8	8.8	8.5	8.7	9.0	9.3	9.3	
HI PR	220	236	249	260	260	246	265	280	292	292	280	302	318	332	332	319	343	363	378	378	359	386	408	426	426	397	427	451	470	470	
LO PR	110	117	128	136	136	116	124	135	144	144	121	128	140	149	149	127	135	147	157	157	133	141	154	164	164	137	146	160	170	170	

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions
Goodman Manufacturing Company, L.P. reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring

COOLING PERFORMANCE DATA

GSX160301F*

MODEL: GSX160301F*-CA*F3743*6D*-TXV EXPANDED PERFORMANCE DATA COOLING OPERATION
3/4/2013

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	875	NetCap	2.55	26.4	28.9	-	24.9	25.8	28.2	-	24.3	25.2	27.6	-	23.7	24.6	26.9	-	22.5	23.3	25.6	-	20.8	21.6	23.7	-		
		S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.81	0.67	0.47	-		
		Delta T	19	19	12	-	19	16	12	-	19	16	13	-	19	17	13	-	19	16	12	-	18	15	12	-		
		System kW	1.87	1.90	1.96	-	2.00	2.04	2.10	-	2.11	2.15	2.22	-	2.21	2.26	2.32	-	2.30	2.34	2.41	-	2.37	2.42	2.49	-		
		OD amps	6.8	6.9	7.1	-	7.3	7.5	7.7	-	7.9	8.1	8.4	-	8.5	8.7	9.0	-	9.0	9.2	9.5	-	9.5	9.8	10.1	-		
		HI PR	214	230	243	-	240	258	272	-	272	293	310	-	310	334	353	-	349	376	397	-	386	415	438	-		
		LO PR	104	110	120	-	109	116	127	-	114	121	132	-	119	127	139	-	125	133	145	-	130	138	150	-		
		NetCap	27.6	28.6	31.3	-	28.9	27.9	30.6	-	26.3	27.3	29.9	-	25.7	26.6	29.1	-	24.4	25.3	27.7	-	22.6	23.4	25.6	-		
		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	-		
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-		
75	1000	System kW	1.91	1.95	2.00	-	2.04	2.08	2.14	-	2.16	2.20	2.27	-	2.26	2.31	2.38	-	2.35	2.40	2.47	-	2.43	2.48	2.55	-		
		OD amps	6.9	7.1	7.3	-	7.5	7.7	7.9	-	8.2	8.3	8.6	-	8.7	8.9	9.2	-	9.3	9.5	9.8	-	9.8	10.1	10.4	-		
		HI PR	220	237	250	-	247	266	281	-	281	302	319	-	320	344	364	-	360	387	409	-	398	428	452	-		
		LO PR	107	114	124	-	113	120	131	-	117	125	136	-	123	131	143	-	129	137	150	-	134	142	155	-		
		NetCap	28.4	29.5	32.3	-	27.8	28.8	31.5	-	27.1	28.1	30.8	-	26.4	27.4	30.0	-	25.1	26.0	28.5	-	23.3	24.1	26.4	-		
		S/T	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.70	0.48	-	0.87	0.73	0.50	-	0.88	0.73	0.51	-		
		Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-		
		75	1125	System kW	1.92	1.96	2.02	-	2.06	2.10	2.16	-	2.18	2.22	2.29	-	2.28	2.33	2.40	-	2.37	2.42	2.49	-	2.45	2.50	2.57	-
				OD amps	7.0	7.2	7.4	-	7.6	7.8	8.0	-	8.2	8.4	8.7	-	8.8	9.0	9.3	-	9.4	9.6	9.9	-	9.9	10.1	10.5	-
				HI PR	222	239	253	-	249	268	283	-	284	305	322	-	323	348	367	-	364	391	413	-	402	432	456	-
LO PR	105			111	122	-	111	118	128	-	115	122	133	-	121	128	140	-	127	135	147	-	131	139	152	-		
NetCap	28.1			28.9	31.3	-	27.4	28.2	30.5	-	26.8	27.5	29.8	-	26.1	26.9	29.1	-	24.8	25.5	27.6	-	23.0	23.6	25.6	-		
S/T	0.83			0.74	0.56	-	0.86	0.77	0.58	-	0.88	0.79	0.60	-	0.91	0.81	0.61	-	0.94	0.84	0.64	-	0.95	0.85	0.64	-		
Delta T	21			20	16	-	22	20	16	-	22	20	16	-	22	20	16	-	21	20	16	-	20	18	15	-		
75	875			System kW	1.92	1.96	2.02	-	2.06	2.10	2.16	-	2.18	2.22	2.29	-	2.28	2.33	2.40	-	2.37	2.42	2.49	-	2.45	2.50	2.57	-
				OD amps	7.0	7.2	7.4	-	7.6	7.8	8.0	-	8.2	8.4	8.7	-	8.8	9.0	9.3	-	9.4	9.6	9.9	-	9.9	10.2	10.5	-
				HI PR	222	239	253	-	249	268	283	-	284	305	322	-	323	348	367	-	364	391	413	-	402	432	457	-
		LO PR	108	115	125	-	114	121	132	-	118	126	138	-	124	132	145	-	127	135	147	-	131	139	152	-		
		NetCap	28.9	29.8	32.2	-	28.2	29.1	31.5	-	27.6	28.4	30.7	-	26.9	27.7	30.0	-	25.5	26.3	28.5	-	23.7	24.4	26.4	-		
		S/T	0.87	0.78	0.59	-	0.90	0.80	0.61	-	0.92	0.82	0.62	-	0.95	0.85	0.64	-	0.99	0.88	0.67	-	1.00	0.89	0.67	-		
		Delta T	20	19	15	-	21	19	16	-	21	19	16	-	21	19	16	-	21	19	16	-	21	19	15	-		
		75	1000	System kW	1.94	1.97	2.03	-	2.07	2.11	2.18	-	2.19	2.24	2.30	-	2.30	2.35	2.42	-	2.39	2.44	2.51	-	2.47	2.52	2.60	-
				OD amps	7.1	7.2	7.5	-	7.6	7.8	8.1	-	8.3	8.5	8.8	-	8.9	9.1	9.4	-	9.4	9.7	10.0	-	10.0	10.2	10.6	-
				HI PR	225	242	255	-	252	271	286	-	287	308	326	-	326	351	371	-	367	395	417	-	406	437	461	-
LO PR	109			116	127	-	115	122	134	-	120	127	139	-	126	134	146	-	132	140	153	-	136	145	158	-		
NetCap	29.1			29.9	32.3	-	28.4	29.2	31.6	-	27.9	28.7	31.0	-	27.2	28.0	30.3	-	26.5	27.3	29.6	-	23.9	24.7	26.8	-		
S/T	0.89			0.80	0.61	-	0.92	0.82	0.62	-	0.95	0.85	0.64	-	0.99	0.89	0.67	-	1.00	0.89	0.67	-	1.00	0.89	0.67	-		
Delta T	20			19	15	-	21	19	16	-	21	19	16	-	21	19	16	-	21	19	16	-	21	19	15	-		
75	1125			System kW	1.94	1.97	2.03	-	2.07	2.11	2.18	-	2.19	2.24	2.30	-	2.30	2.35	2.42	-	2.39	2.44	2.51	-	2.47	2.52	2.60	-
				OD amps	7.1	7.2	7.5	-	7.6	7.8	8.1	-	8.3	8.5	8.8	-	8.9	9.1	9.4	-	9.4	9.7	10.0	-	10.0	10.2	10.6	-
				HI PR	225	242	255	-	252	271	286	-	287	308	326	-	326	351	371	-	367	395	417	-	406	437	461	-
		LO PR	109	116	127	-	115	122	134	-	120	127	139	-	126	134	146	-	132	140	153	-	136	145	158	-		
		NetCap	29.1	29.9	32.3	-	28.4	29.2	31.6	-	27.9	28.7	31.0	-	27.2	28.0	30.3	-	26.5	27.3	29.6	-	23.9	24.7	26.8	-		
		S/T	0.89	0.80	0.61	-	0.92	0.82	0.62	-	0.95	0.85	0.64	-	0.99	0.89	0.67	-	1.00	0.89	0.67	-	1.00	0.89	0.67	-		
		Delta T	20	19	15	-	21	19	16	-	21	19	16	-	21	19	16	-	21	19	16	-	21	19	15	-		

* Entering Indoor Dry Bulb Temperature
NOTE: Shaded area is ACCA (IVA) conditions
Goodman Manufacturing Company, L.P. reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring

COOLING PERFORMANCE DATA

GSX160301F*

MODEL: GSX160301F*-CA*F3743*6D*-TXV EXPANDED PERFORMANCE DATA

COOLING OPERATION

3/4/2013

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
80	NetCap	26.4	26.9	28.8	30.8	25.7	26.3	28.1	30.0	25.1	25.7	27.4	29.3	24.5	25.1	26.8	28.6	23.3	23.8	25.4	27.2	21.6	22.0	23.6	25.2
	S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.94	0.77	0.57
	Delta T	24	23	20	16	25	24	20	16	25	24	20	16	25	24	21	16	24	23	20	16	23	22	19	15
	System kW	1.90	1.93	1.99	2.04	2.03	2.07	2.13	2.19	2.14	2.19	2.25	2.32	2.25	2.29	2.36	2.43	2.33	2.38	2.45	2.53	2.41	2.46	2.53	2.61
	OD amps	6.9	7.0	7.3	7.5	7.4	7.6	7.9	8.2	8.1	8.3	8.5	8.9	8.6	8.8	9.1	9.5	9.2	9.4	9.7	10.1	9.7	10.0	10.3	10.7
	HI PR	218	234	248	258	244	263	278	290	278	299	316	330	317	341	360	375	356	383	405	422	394	424	447	467
	LO PR	106	112	123	131	112	119	130	138	116	123	135	144	122	130	142	151	128	136	148	158	132	141	154	163
	NetCap	28.6	29.2	31.2	33.3	27.9	28.5	30.5	32.6	27.2	27.8	29.7	31.8	26.6	27.1	29.0	31.0	25.2	25.8	27.6	29.5	23.4	23.9	25.5	27.3
	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
	Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	21	21	19	15
	System kW	1.94	1.97	2.03	2.09	2.07	2.11	2.18	2.24	2.19	2.24	2.30	2.37	2.30	2.35	2.42	2.49	2.39	2.44	2.51	2.59	2.47	2.52	2.60	2.68
	OD amps	7.1	7.2	7.5	7.8	7.6	7.8	8.1	8.4	8.3	8.5	8.8	9.1	8.9	9.1	9.4	9.7	9.4	9.7	10.0	10.4	10.0	10.2	10.6	11.0
HI PR	225	242	255	266	252	271	286	299	287	308	326	340	326	351	371	387	367	395	417	435	406	437	461	481	
LO PR	109	116	127	135	115	123	134	142	120	127	139	148	126	134	146	155	132	140	153	163	136	145	158	169	
NetCap	29.4	30.1	32.1	34.3	28.7	29.4	31.4	33.5	28.0	28.7	30.6	32.7	27.4	28.0	29.9	31.9	26.0	26.6	28.4	30.3	24.1	24.6	26.3	28.1	
S/T	0.95	0.89	0.73	0.54	1.00	0.93	0.75	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.83	0.62	
Delta T	23	22	19	15	23	22	19	15	23	22	19	15	22	23	19	16	21	22	19	15	20	20	18	14	
System kW	1.95	1.99	2.05	2.11	2.09	2.13	2.19	2.26	2.21	2.25	2.32	2.39	2.32	2.36	2.44	2.51	2.41	2.46	2.53	2.61	2.48	2.54	2.62	2.70	
OD amps	7.1	7.3	7.5	7.8	7.7	7.9	8.2	8.5	8.4	8.6	8.9	9.2	9.0	9.2	9.5	9.8	9.5	9.8	10.1	10.5	10.1	10.3	10.7	11.1	
HI PR	227	244	258	269	255	274	289	302	290	312	329	343	330	355	375	391	371	399	422	440	410	441	466	486	
LO PR	110	117	128	136	116	124	135	144	121	129	140	150	127	135	147	157	133	142	155	165	138	146	160	170	
85	NetCap	26.8	27.3	28.6	30.5	26.2	26.7	28.0	29.8	25.6	26.1	27.3	29.1	24.9	25.4	26.6	28.4	23.7	24.2	25.3	27.0	22.0	22.4	23.4	25.0
	S/T	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.74
	Delta T	26	25	24	21	26	26	24	21	26	26	24	21	26	26	25	21	25	25	24	21	23	24	23	20
	System kW	1.91	1.95	2.00	2.06	2.04	2.08	2.14	2.21	2.16	2.20	2.27	2.34	2.26	2.31	2.38	2.45	2.35	2.40	2.47	2.55	2.43	2.48	2.55	2.63
	OD amps	6.9	7.1	7.3	7.6	7.5	7.7	7.9	8.2	8.1	8.3	8.6	8.9	8.7	8.9	9.2	9.6	9.3	9.5	9.8	10.2	9.8	10.1	10.4	10.8
	HI PR	220	237	250	261	247	266	281	293	281	302	319	333	320	344	363	379	360	387	409	426	398	428	452	471
	LO PR	107	114	124	132	113	120	131	140	117	125	136	145	123	131	143	152	129	137	150	160	133	142	155	165
	NetCap	29.1	29.6	31.0	33.1	28.4	28.9	30.3	32.3	27.7	28.2	29.6	31.6	27.0	27.6	28.9	30.8	25.7	26.2	27.4	29.2	23.8	24.2	25.4	27.1
	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
	Delta T	25	25	24	20	26	25	24	21	25	25	24	21	25	25	24	21	24	24	24	21	22	22	22	19
	System kW	1.95	1.99	2.05	2.11	2.09	2.13	2.19	2.26	2.21	2.25	2.32	2.39	2.32	2.36	2.44	2.51	2.41	2.46	2.53	2.61	2.48	2.54	2.62	2.70
	OD amps	7.1	7.3	7.5	7.8	7.7	7.9	8.2	8.5	8.4	8.6	8.9	9.2	9.0	9.2	9.5	9.8	9.5	9.8	10.1	10.5	10.1	10.3	10.7	11.1
HI PR	227	244	258	269	255	274	289	302	290	312	329	343	330	355	375	391	371	399	422	440	410	441	466	486	
LO PR	110	117	128	136	116	124	135	144	121	129	140	150	127	135	147	157	133	142	155	165	138	146	160	170	
1125	NetCap	29.9	30.5	31.9	34.1	29.2	29.8	31.2	33.3	28.5	29.1	30.5	32.5	27.8	28.4	29.7	31.7	26.4	27.0	28.2	30.1	24.5	25.0	26.2	27.9
	S/T	1.00	0.96	0.87	0.70	1.00	1.00	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.99	0.80	1.00	1.00	0.92	0.81
	Delta T	24	24	23	20	24	24	23	20	23	24	23	20	23	23	23	20	22	22	23	20	20	20	21	18
	System kW	1.97	2.00	2.06	2.12	2.10	2.15	2.21	2.28	2.23	2.27	2.34	2.41	2.33	2.38	2.45	2.53	2.43	2.48	2.55	2.63	2.50	2.56	2.64	2.72
	OD amps	7.2	7.4	7.6	7.9	7.8	8.0	8.2	8.5	8.5	8.7	8.9	9.3	9.0	9.3	9.6	9.9	9.6	9.9	10.2	10.6	10.2	10.4	10.8	11.2
	HI PR	229	247	260	272	257	277	292	305	292	315	332	347	333	358	378	395	375	403	426	444	414	445	470	491
	LO PR	111	118	129	138	117	125	136	145	122	130	142	151	128	136	149	159	134	143	156	166	139	148	161	172

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHR1 Rating Conditions

Goodman Manufacturing Company, L.P. reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring

COOLING PERFORMANCE DATA

GSX160361F*

MODEL: GSX160361F*-CA*F4860*6D*+TXV EXPANDED PERFORMANCE DATA COOLING OPERATION

3/4/2013

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			
70	NetCap	30.6	31.7	34.7	-	29.8	30.9	33.9	-	29.1	30.2	33.1	-	28.4	29.5	32.3	-	27.0	28.0	30.7	-	25.0	25.9	28.4	-	25.0	25.9	28.4	-	25.0	25.9	28.4	-	
	S/T	0.71	0.59	0.41	-	0.74	0.62	0.43	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.82	0.68	0.47	-	0.81	0.68	0.47	-	0.82	0.68	0.47	-	
	Delta T	19	16	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	15	12	-	19	17	13	-	18	15	12	-	
	System kW	2.23	2.27	2.34	-	2.39	2.44	2.51	-	2.53	2.58	2.66	-	2.65	2.70	2.79	-	2.75	2.81	2.90	-	2.84	2.90	2.99	-	2.75	2.81	2.90	-	2.84	2.90	2.99	-	
	OD amps	8.1	8.3	8.5	-	8.7	8.9	9.2	-	9.5	9.7	10.0	-	10.1	10.4	10.7	-	10.8	11.1	11.4	-	11.5	11.7	12.1	-	10.8	11.1	11.4	-	11.5	11.7	12.1	-	
	HI PR	219	236	249	-	246	265	280	-	280	301	318	-	319	343	362	-	359	386	407	-	396	426	450	-	359	386	407	-	396	426	450	-	
	LO PR	103	109	120	-	109	116	126	-	113	120	131	-	119	126	138	-	124	132	144	-	129	137	149	-	124	132	144	-	129	137	149	-	
	NetCap	33.1	34.3	37.6	-	32.3	33.5	36.7	-	31.6	32.7	35.8	-	30.8	31.9	35.0	-	29.3	30.3	33.2	-	27.1	28.1	30.8	-	29.3	30.3	33.2	-	27.1	28.1	30.8	-	
	S/T	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-	
	Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	15	12	-	19	16	12	-	18	15	12	-	
1200	System kW	2.28	2.33	2.39	-	2.44	2.49	2.57	-	2.59	2.64	2.72	-	2.71	2.77	2.85	-	2.82	2.88	2.97	-	2.91	2.97	3.07	-	2.82	2.88	2.97	-	2.91	2.97	3.07	-	
	OD amps	8.3	8.5	8.8	-	9.0	9.2	9.5	-	9.8	10.0	10.3	-	10.4	10.7	11.1	-	11.1	11.4	11.8	-	11.8	12.1	12.5	-	11.1	11.4	11.8	-	11.8	12.1	12.5	-	
	HI PR	226	243	257	-	254	273	288	-	288	310	328	-	329	354	373	-	370	398	420	-	408	440	464	-	370	398	420	-	408	440	464	-	
	LO PR	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	149	-	133	141	154	-	128	136	149	-	133	141	154	-	
	NetCap	34.1	35.3	38.7	-	33.3	34.5	37.8	-	32.5	33.7	36.9	-	31.7	32.9	36.0	-	30.1	31.2	34.2	-	27.9	28.9	31.7	-	30.1	31.2	34.2	-	27.9	28.9	31.7	-	
	S/T	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.88	0.74	0.51	-	0.89	0.74	0.51	-	0.88	0.74	0.51	-	0.89	0.74	0.51	-	
	Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	18	16	12	-	17	15	11	-	
	System kW	2.30	2.34	2.41	-	2.46	2.51	2.59	-	2.61	2.66	2.74	-	2.73	2.79	2.88	-	2.84	2.90	2.99	-	2.94	3.00	3.09	-	2.84	2.90	2.99	-	2.94	3.00	3.09	-	
	OD amps	8.4	8.6	8.9	-	9.1	9.3	9.6	-	9.9	10.1	10.4	-	10.5	10.8	11.2	-	11.2	11.5	11.9	-	11.9	12.2	12.6	-	11.2	11.5	11.9	-	11.9	12.2	12.6	-	
	HI PR	228	246	259	-	256	276	291	-	291	314	331	-	332	357	377	-	373	402	424	-	413	444	469	-	373	402	424	-	413	444	469	-	
LO PR	107	114	124	-	113	120	131	-	118	125	137	-	124	131	144	-	130	138	150	-	134	143	156	-	130	138	150	-	134	143	156	-		
1350	NetCap	31.1	32.0	34.6	37.2	30.4	31.3	33.8	36.3	29.6	30.5	33.0	35.4	28.9	29.8	32.2	34.6	27.5	28.3	30.6	32.8	25.4	26.2	28.4	30.4	27.5	28.3	30.6	32.8	25.4	26.2	28.4	30.4	
	S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40	
	Delta T	22	20	17	11	22	21	17	12	22	21	17	12	22	21	17	12	22	20	17	12	22	21	19	16	11	22	20	17	12	21	19	16	11
	System kW	2.25	2.29	2.36	2.43	2.41	2.45	2.53	2.60	2.55	2.60	2.68	2.76	2.67	2.73	2.81	2.90	2.78	2.83	2.92	3.01	2.87	2.93	3.02	3.11	2.78	2.83	2.92	3.01	2.87	2.93	3.02	3.11	
	OD amps	8.1	8.3	8.6	8.9	8.8	9.0	9.3	9.7	9.6	9.8	10.1	10.5	10.2	10.5	10.9	11.3	10.9	11.2	11.6	12.0	11.6	11.9	12.3	12.7	10.9	11.2	11.6	12.0	11.6	11.9	12.3	12.7	
	HI PR	222	238	252	263	249	267	282	295	283	304	321	335	322	346	366	382	362	390	412	429	400	431	455	474	362	390	412	429	400	431	455	474	
	LO PR	104	111	121	129	110	117	128	136	114	121	133	141	120	128	139	148	126	134	146	155	130	138	151	161	126	134	146	155	130	138	151	161	
	NetCap	33.7	34.7	37.5	40.3	32.9	33.9	36.6	39.3	32.1	33.1	35.8	38.4	31.3	32.2	34.9	37.5	29.8	30.6	33.2	35.6	27.6	28.4	30.7	33.0	29.8	30.6	33.2	35.6	27.6	28.4	30.7	33.0	
	S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.65	0.42	0.96	0.86	0.65	0.42	0.95	0.85	0.65	0.42	0.96	0.86	0.65	0.42	
	Delta T	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	11	22	20	16	11	20	19	15	11	22	20	16	11	20	19	15	11	
System kW	2.30	2.34	2.41	2.48	2.46	2.51	2.59	2.67	2.61	2.66	2.74	2.83	2.73	2.79	2.88	2.97	2.84	2.90	2.99	3.09	2.94	3.00	3.09	3.19	2.84	2.90	2.99	3.09	2.94	3.00	3.09	3.19		
OD amps	8.4	8.6	8.9	9.2	9.1	9.3	9.6	10.0	9.9	10.1	10.4	10.8	10.5	10.8	11.2	11.6	11.2	11.5	11.9	12.3	11.9	12.2	12.6	13.1	11.2	11.5	11.9	12.3	11.9	12.2	12.6	13.1		
HI PR	228	246	260	271	256	276	291	304	291	314	331	345	332	357	377	393	373	402	424	443	413	444	469	489	393	402	424	443	413	444	469	489		
LO PR	107	114	124	133	113	120	131	140	118	125	137	146	124	131	144	153	130	138	150	160	134	143	156	166	153	160	160	160	134	143	156	166		
NetCap	34.7	35.7	38.6	41.5	33.9	34.9	37.7	40.5	33.1	34.0	36.9	39.6	32.3	33.2	36.0	38.6	30.6	31.6	34.2	36.7	28.4	29.2	31.6	34.0	30.6	31.6	34.2	36.7	28.4	29.2	31.6	34.0		
S/T	0.88	0.79	0.60	0.38	0.91	0.81	0.62	0.40	0.93	0.84	0.63	0.41	0.96	0.86	0.65	0.42	1.00	0.90	0.68	0.44	1.00	0.90	0.68	0.44	0.96	0.86	0.65	0.42	1.00	0.90	0.68	0.44		
Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10	21	19	16	11	19	18	15	10		
System kW	2.32	2.36	2.43	2.50	2.48	2.53	2.61	2.69	2.63	2.68	2.76	2.85	2.76	2.81	2.90	2.99	2.86	2.93	3.02	3.11	2.96	3.02	3.12	3.22	2.99	3.02	3.11	3.22	2.96	3.02	3.12	3.22		
OD amps	8.5	8.7	8.9	9.3	9.1	9.4	9.7	10.0	9.9	10.2	10.5	10.9	10.6	10.9	11.3	11.7	11.3	11.6	12.0	12.5	12.0	12.3	12.7	13.2	11.3	11.6	12.0	12.5	12.0	12.3	12.7	13.2		
HI PR	231	248	262	273	259	279	294	307	294	317	334	349	335	361	381	397	377	406	429	447	417	448	474	494	397	406	429	447	417	448	474	494		
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	154	162	162	162	135	144	157	167		

* Entering Indoor Dry Bulb Temperature
 NOTE: Shaded area is ACCA (TVA) conditions
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COOLING PERFORMANCE DATA

GSX160361F*

MODEL: GSX160361F*-CA*F4860*6D*+TXV EXPANDED PERFORMANCE DATA

COOLING OPERATION

3/4/2013

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
80	Net Cap	3.16	32.3	34.5	36.9	30.9	31.6	33.7	36.1	30.2	30.8	32.9	35.2	29.4	30.1	32.1	34.3	28.0	28.6	30.5	32.6	25.9	26.5	28.3	30.2
	S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.01	0.95	0.77	0.58	1.02	0.95	0.78	0.58
	Delta T	2.5	2.4	2.0	1.6	2.5	2.4	2.1	1.7	2.5	2.4	2.1	1.7	2.5	2.4	2.1	1.7	2.5	2.4	2.1	1.6	2.3	2.2	1.9	1.5
	System KW	2.26	2.31	2.38	2.45	2.42	2.47	2.55	2.62	2.57	2.62	2.70	2.78	2.69	2.75	2.83	2.92	2.80	2.86	2.94	3.04	2.89	2.95	3.04	3.14
	OD amps	8.2	8.4	8.7	9.0	8.9	9.1	9.4	9.8	9.7	9.9	10.2	10.6	10.3	10.6	11.0	11.4	11.0	11.3	11.7	12.1	11.7	12.0	12.4	12.8
	HI PR	224	241	254	265	251	270	285	298	286	307	324	338	325	350	370	385	366	394	416	434	404	435	459	479
	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
	Net Cap	34.3	35.0	37.4	40.0	33.5	34.2	36.5	39.1	32.7	33.4	35.7	38.1	31.9	32.6	34.8	37.2	30.3	30.9	33.1	35.3	28.1	28.7	30.6	32.7
	S/T	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	0.98	0.80	0.60	1.00	0.99	0.81	0.60
	Delta T	2.4	2.3	2.0	1.6	2.4	2.3	2.0	1.6	2.4	2.3	2.0	1.6	2.4	2.4	2.1	1.6	2.3	2.3	2.0	1.6	2.1	2.1	1.9	1.5
System KW	2.32	2.36	2.43	2.50	2.48	2.53	2.61	2.69	2.63	2.68	2.76	2.85	2.76	2.81	2.90	2.99	2.87	2.93	3.02	3.11	2.96	3.02	3.12	3.22	
OD amps	8.5	8.7	8.9	9.3	9.1	9.4	9.7	10.0	9.9	10.2	10.5	10.9	10.6	10.9	11.3	11.7	11.3	11.6	12.0	12.5	12.0	12.3	12.7	13.2	
HI PR	231	248	262	273	259	279	294	307	294	317	335	349	335	361	381	397	377	406	429	447	417	448	474	494	
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	
Net Cap	35.3	36.1	38.5	41.2	34.5	35.2	37.6	40.2	33.7	34.4	36.7	39.3	32.8	33.5	35.8	38.3	31.2	31.9	34.1	36.4	28.9	29.5	31.5	33.7	
S/T	0.96	0.90	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.96	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.84	0.63	1.00	1.00	0.84	0.63	
Delta T	2.3	2.2	1.9	1.5	2.3	2.2	2.0	1.6	2.3	2.3	2.0	1.6	2.2	2.3	2.0	1.6	2.1	2.2	1.9	1.6	2.0	2.0	1.8	1.5	
System KW	2.33	2.38	2.45	2.52	2.50	2.55	2.63	2.71	2.65	2.70	2.78	2.87	2.78	2.84	2.92	3.02	2.89	2.95	3.04	3.14	2.98	3.05	3.14	3.24	
OD amps	8.5	8.7	9.0	9.4	9.2	9.5	9.8	10.1	10.0	10.3	10.6	11.0	10.7	11.0	11.4	11.8	11.4	11.7	12.1	12.6	12.1	12.4	12.8	13.3	
HI PR	233	251	265	276	261	281	297	310	297	320	338	352	339	364	385	401	381	410	433	452	421	453	478	499	
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	
Net Cap	34.9	35.5	37.2	39.7	34.1	34.7	36.4	38.8	33.2	33.9	35.5	37.9	32.4	33.1	34.6	36.9	30.8	31.4	32.9	35.1	28.5	29.1	30.5	32.5	
S/T	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.71	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.96	0.78	
Delta T	2.6	2.5	2.4	2.1	2.6	2.6	2.4	2.1	2.5	2.6	2.4	2.1	2.5	2.5	2.4	2.1	2.4	2.4	2.4	2.1	2.2	2.2	2.2	1.9	
System KW	2.33	2.38	2.45	2.52	2.50	2.55	2.63	2.71	2.65	2.70	2.78	2.87	2.78	2.84	2.92	3.02	2.89	2.95	3.04	3.14	2.98	3.05	3.14	3.24	
OD amps	8.5	8.7	9.0	9.4	9.2	9.5	9.8	10.1	10.0	10.3	10.6	11.0	10.7	11.0	11.4	11.8	11.4	11.7	12.1	12.6	12.1	12.4	12.8	13.3	
HI PR	233	251	265	276	261	281	297	310	297	320	338	352	339	364	385	401	381	410	433	452	421	453	478	499	
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	
Net Cap	35.9	36.6	38.3	40.9	35.1	35.8	37.4	40.0	34.2	34.9	36.6	39.0	33.4	34.1	35.7	38.0	31.7	32.4	33.9	36.1	29.4	30.0	31.4	33.5	
S/T	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.78	1.00	1.00	1.00	0.81	1.00	1.00	1.00	0.82	
Delta T	2.4	2.4	2.3	2.0	2.4	2.4	2.3	2.0	2.3	2.4	2.3	2.0	2.3	2.3	2.3	2.0	2.2	2.2	2.2	2.0	2.0	2.0	2.1	1.9	
System KW	2.35	2.40	2.47	2.54	2.52	2.57	2.65	2.73	2.67	2.72	2.81	2.89	2.80	2.86	2.95	3.04	2.91	2.97	3.07	3.16	3.01	3.07	3.17	3.27	
OD amps	8.6	8.8	9.1	9.5	9.3	9.5	9.9	10.2	10.1	10.4	10.7	11.1	10.8	11.1	11.5	11.9	11.5	11.8	12.2	12.7	12.2	12.5	13.0	13.5	
HI PR	235	253	267	279	264	284	300	313	300	323	341	356	342	368	389	405	385	414	437	456	425	457	483	504	
LO PR	110	117	128	137	117	124	135	144	121	129	141	150	127	135	148	158	133	142	155	165	138	147	160	171	

* Entering Indoor Dry Bulb Temperature
 NOTE: Shaded area is AHRI Rating Conditions
 Goodman Manufacturing Company, L.P. reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring

COOLING PERFORMANCE DATA

GSX160421F*

MODEL: GSX160421F*-CA*F4860*6D*+TXV EXPANDED PERFORMANCE DATA

COOLING OPERATION
3/4/2013

IDB*	Airflow	Outdoor Ambient Temperature																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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		59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143	147	151	155	159	163	167	171	175	179	183	187	191	195	199	203	207	211	215	219	223	227	231	235	239	243	247	251	255	259	263	267	271	275	279	283	287	291	295	299	303	307	311	315	319	323	327	331	335	339	343	347	351	355	359	363	367	371	375	379	383	387	391	395	399	403	407	411	415	419	423	427	431	435	439	443	447	451	455	459	463	467	471	475	479	483	487	491	495	499	503	507	511	515	519	523	527	531	535	539	543	547	551	555	559	563	567	571	575	579	583	587	591	595	599	603	607	611	615	619	623	627	631	635	639	643	647	651	655	659	663	667	671	675	679	683	687	691	695	699	703	707	711	715	719	723	727	731	735	739	743	747	751	755	759	763	767	771	775	779	783	787	791	795	799	803	807	811	815	819	823	827	831	835	839	843	847	851	855	859	863	867	871	875	879	883	887	891	895	899	903	907	911	915	919	923	927	931	935	939	943	947	951	955	959	963	967	971	975	979	983	987	991	995	999	1003	1007	1011	1015	1019	1023	1027	1031	1035	1039	1043	1047	1051	1055	1059	1063	1067	1071	1075	1079	1083	1087	1091	1095	1099	1103	1107	1111	1115	1119	1123	1127	1131	1135	1139	1143	1147	1151	1155	1159	1163	1167	1171	1175	1179	1183	1187	1191	1195	1199	1203	1207	1211	1215	1219	1223	1227	1231	1235	1239	1243	1247	1251	1255	1259	1263	1267	1271	1275	1279	1283	1287	1291	1295	1299	1303	1307	1311	1315	1319	1323	1327	1331	1335	1339	1343	1347	1351	1355	1359	1363	1367	1371	1375	1379	1383	1387	1391	1395	1399	1403	1407	1411	1415	1419	1423	1427	1431	1435	1439	1443	1447	1451	1455	1459	1463	1467	1471	1475	1479	1483	1487	1491	1495	1499	1503	1507	1511	1515	1519	1523	1527	1531	1535	1539	1543	1547	1551	1555	1559	1563	1567	1571	1575	1579	1583	1587	1591	1595	1599	1603	1607	1611	1615	1619	1623	1627	1631	1635	1639	1643	1647	1651	1655	1659	1663	1667	1671	1675	1679	1683	1687	1691	1695	1699	1703	1707	1711	1715	1719	1723	1727	1731	1735	1739	1743	1747	1751	1755	1759	1763	1767	1771	1775	1779	1783	1787	1791	1795	1799	1803	1807	1811	1815	1819	1823	1827	1831	1835	1839	1843	1847	1851	1855	1859	1863	1867	1871	1875	1879	1883	1887	1891	1895	1899	1903	1907	1911	1915	1919	1923	1927	1931	1935	1939	1943	1947	1951	1955	1959	1963	1967	1971	1975	1979	1983	1987	1991	1995	1999	2003	2007	2011	2015	2019	2023	2027	2031	2035	2039	2043	2047	2051	2055	2059	2063	2067	2071	2075	2079	2083	2087	2091	2095	2099	2103	2107	2111	2115	2119	2123	2127	2131	2135	2139	2143	2147	2151	2155	2159	2163	2167	2171	2175	2179	2183	2187	2191	2195	2199	2203	2207	2211	2215	2219	2223	2227	2231	2235	2239	2243	2247	2251	2255	2259	2263	2267	2271	2275	2279	2283	2287	2291	2295	2299	2303	2307	2311	2315	2319	2323	2327	2331	2335	2339	2343	2347	2351	2355	2359	2363	2367	2371	2375	2379	2383	2387	2391	2395	2399	2403	2407	2411	2415	2419	2423	2427	2431	2435	2439	2443	2447	2451	2455	2459	2463	2467	2471	2475	2479	2483	2487	2491	2495	2499	2503	2507	2511	2515	2519	2523	2527	2531	2535	2539	2543	2547	2551	2555	2559	2563	2567	2571	2575	2579	2583	2587	2591	2595	2599	2603	2607	2611	2615	2619	2623	2627	2631	2635	2639	2643	2647	2651	2655	2659	2663	2667	2671	2675	2679	2683	2687	2691	2695	2699	2703	2707	2711	2715	2719	2723	2727	2731	2735	2739	2743	2747	2751	2755	2759	2763	2767	2771	2775	2779	2783	2787	2791	2795	2799	2803	2807	2811	2815	2819	2823	2827	2831	2835	2839	2843	2847	2851	2855	2859	2863	2867	2871	2875	2879	2883	2887	2891	2895	2899	2903	2907	2911	2915	2919	2923	2927	2931	2935	2939	2943	2947	2951	2955	2959	2963	2967	2971	2975	2979	2983	2987	2991	2995	2999	3003	3007	3011	3015	3019	3023	3027	3031	3035	3039	3043	3047	3051	3055	3059	3063	3067	3071	3075	3079	3083	3087	3091	3095	3099	3103	3107	3111	3115	3119	3123	3127	3131	3135	3139	3143	3147	3151	3155	3159	3163	3167	3171	3175	3179	3183	3187	3191	3195	3199	3203	3207	3211	3215	3219	3223	3227	3231	3235	3239	3243	3247	3251	3255	3259	3263	3267	3271	3275	3279	3283	3287	3291	3295	3299	3303	3307	3311	3315	3319	3323	3327	3331	3335	3339	3343	3347	3351	3355	3359	3363	3367	3371	3375	3379	3383	3387	3391	3395	3399	3403	3407	3411	3415	3419	3423	3427	3431	3435	3439	3443	3447	3451	3455	3459	3463	3467	3471	3475	3479	3483	3487	3491	3495	3499	3503	3507	3511	3515	3519	3523	3527	3531	3535	3539	3543	3547	3551	3555	3559	3563	3567	3571	3575	3579	3583	3587	3591	3595	3599	3603	3607	3611	3615	3619	3623	3627	3631	3635	3639	3643	3647	3651	3655	3659	3663	3667	3671	3675	3679	3683	3687	3691	3695	3699	3703	3707	3711	3715	3719	3723	3727	3731	3735	3739	3743	3747	3751	3755	3759	3763	3767	3771	3775	3779	3783	3787	3791	3795	3799	3803	3807	3811	3815	3819	3823	3827	3831	3835	3839	3843	3847	3851	3855	3859	3863	3867	3871	3875	3879	3883	3887	3891	3895	3899	3903	3907	3911	3915	3919	3923	3927	3931	3935	3939	3943	3947	3951	3955	3959	3963	3967	3971	3975	3979	3983	3987	3991	3995	3999	4003	4007	4011	4015	4019	4023	4027	4031	4035	4039	4043	4047	4051	4055	4059	4063	4067	4071	4075	4079	4083	4087	4091	4095	4099	4103	4107	4111	4115	4119	4123	4127	4131	4135	4139	4143	4147	4151	4155	4159	4163	4167	4171	4175	4179	4183	4187	4191	4195	4199	4203	4207	4211	4215	4219	4223	4227	4231	4235	4239	4243	4247	4251	4255	4259	4263	4267	4271	4275	4279	4283	4287	4291	4295	4299	4303	4307	4311	4315	4319	4323	4327	4331	4335	4339	4343	4347	4351	4355	4359	4363	4367	4371	4375	4379	4383	4387	4391	4395	4399	4403	4407	4411	4415	4419	4423	4427	4431	4435	4439	4443	4447	4451	4455	4459	4463	4467	4471	4475	4479	4483	4487	4491	4495	4499	4503	4507	4511	4515	4519	4523	4527	4531	4535	4539	4543	4547	4551	4555	4559	4563	4567	4571	4575	4579	4583	4587	4591	4595	4599	4603	4607	4611	4615	4619	4623	4627	4631	4635	4639	4643	4647	4651	4655	4659	4663	4667	4671	4675	4679	4683	4687	4691	4695	4699	4703	4707	4711	4715	4719	4723	4727	4731	4735	4739	4743	4747	4751	4755	4759	4763	4767	4771	4775	4779	4783	4787	4791	4795	4799	4803	4807	4811	4815	4819	4823	4827	4831	4835	4839	4843	4847	4851	4855	4859	4863	4867	4871	4875	4879	4883	4887	4891	4895	4899	4903	4907	4911	4915	4919	4923	4927	4931	4935	4939	4943	4947	4951	4955	4959	4963	4967	4971	4975	4979	4983	4987	4991	4995	4999	5003	5007	5011	5015	5019	5023	5027	5031	5035	5039	5043	5047	5051	5055	5059	5063	5067	5071	5075	5079	5083	5087	5091	5095	5099	5103	5107	5111	5115	5119	5123	5127	5131	5135	5139	5143	5147	5151	5155	5159	5163	5167	5171	5175	5179	5183	5187	5191	5195	5199	5203	5207	5211	5215	5219	5223	5227	5231	5235	5239	5243	5247	5251	5255	5259	5263	5267	5271	5275	5279	5283	5287	5291	5295	5299	5303	5307	5311	5315	5319	5323	5327	5331	5335	5339	5343	5347	5351	5355	5359	5363	5367	5371	5375	5379	5383	5387	5391	5395	5399	5403	5407	5411	5415	5419	5423	5427	5431	5435	5439	5443	5447	5451	5455	5459	5463	5467	5471	5475	5479	5483	5487	5491	5495	5499

COOLING PERFORMANCE DATA

GSX160421F*

MODEL: GSX160421F*-CA*F4860*6D*+TXV EXPANDED PERFORMANCE DATA

COOLING OPERATION
3/4/2013

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		
1225	Net Cap	38.2	39.0	41.7	44.5	37.3	38.1	40.7	43.5	36.4	37.2	39.7	42.5	35.5	36.3	38.8	41.4	33.7	34.5	36.8	39.4	31.2	31.9	34.1	36.5	
	S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.94	0.77	0.57	
	Delta T	25	24	21	17	25	24	21	17	25	24	21	17	26	25	21	17	25	24	21	17	24	23	20	16	
	System KW	2.74	2.80	2.88	2.96	2.93	2.99	3.08	3.17	3.10	3.17	3.26	3.36	3.25	3.32	3.42	3.52	3.38	3.45	3.55	3.66	3.49	3.56	3.67	3.79	
	OD amps	10.0	10.3	10.6	11.0	10.8	11.1	11.5	11.9	11.8	12.1	12.5	12.9	12.6	12.9	13.3	13.8	13.4	13.7	14.2	14.7	14.2	14.5	15.0	15.6	
	HI PR	224	241	255	266	252	271	286	298	286	308	325	339	326	351	371	386	367	395	417	435	405	436	461	480	
	LO PR	104	111	121	129	110	117	128	136	114	122	133	142	120	128	140	149	126	134	146	156	130	139	151	161	
	Net Cap	41.4	42.3	45.2	48.3	40.4	41.3	44.1	47.1	39.4	40.3	43.1	46.0	38.5	39.3	42.0	44.9	36.5	37.3	39.9	42.7	33.9	34.6	37.0	39.5	
	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	
	Delta T	25	24	21	16	25	24	21	17	25	24	21	17	25	24	21	17	24	24	21	17	22	22	19	15	
1400	System KW	2.80	2.86	2.94	3.03	3.00	3.06	3.15	3.25	3.18	3.24	3.34	3.44	3.33	3.40	3.50	3.61	3.46	3.53	3.64	3.75	3.57	3.65	3.76	3.88	
	OD amps	10.3	10.6	10.9	11.3	11.1	11.4	11.8	12.2	12.1	12.4	12.8	13.3	12.9	13.2	13.7	14.2	13.8	14.1	14.6	15.1	14.6	14.9	15.4	16.0	
	HI PR	231	249	263	274	260	279	295	308	295	318	335	350	336	362	382	398	378	407	430	448	418	450	475	495	
	LO PR	107	114	125	133	114	121	132	140	118	126	137	146	124	132	144	153	130	138	151	161	134	143	156	166	
	Net Cap	42.6	43.5	46.5	49.7	41.6	42.5	45.4	48.6	40.6	41.5	44.3	47.4	39.6	40.5	43.3	46.2	37.6	38.5	41.1	43.9	34.9	35.6	38.1	40.7	
	S/T	0.95	0.89	0.73	0.54	1.00	0.93	0.75	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.83	0.62	
	Delta T	24	23	20	16	24	23	20	16	24	23	20	16	23	24	20	16	22	22	20	16	20	21	19	15	
	1575	System KW	2.82	2.88	2.96	3.05	3.02	3.08	3.17	3.27	3.20	3.26	3.36	3.47	3.35	3.42	3.53	3.64	3.49	3.56	3.67	3.78	3.60	3.67	3.79	3.91
		OD amps	10.4	10.7	11.0	11.4	11.2	11.5	11.9	12.3	12.2	12.5	12.9	13.4	13.0	13.4	13.8	14.3	13.9	14.2	14.7	15.2	14.7	15.1	15.6	16.2
		HI PR	234	251	265	277	262	282	298	311	298	321	339	353	340	365	386	402	382	411	434	453	422	454	480	500
LO PR		109	116	127	136	115	122	133	142	119	127	138	147	125	133	145	155	131	140	152	162	136	144	158	168	
Net Cap		42.1	42.9	44.9	47.9	41.1	41.9	43.9	46.8	40.1	40.9	42.8	45.7	39.1	39.9	41.8	44.6	37.2	37.9	39.7	42.4	34.4	35.1	36.8	39.2	
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	
Delta T		26	26	24	21	27	26	25	21	26	26	25	21	26	26	25	22	24	25	25	21	23	23	23	20	
1225		System KW	2.76	2.82	2.90	2.98	2.96	3.01	3.10	3.20	3.13	3.19	3.28	3.38	3.28	3.34	3.44	3.55	3.40	3.47	3.58	3.69	3.51	3.59	3.70	3.82
		OD amps	10.1	10.4	10.7	11.1	10.9	11.2	11.6	12.0	11.9	12.2	12.6	13.0	12.7	13.0	13.4	13.9	13.5	13.8	14.3	14.8	14.3	14.6	15.1	15.7
		HI PR	227	244	257	269	254	274	289	301	289	311	329	343	329	354	374	390	371	399	421	439	409	441	465	485
	LO PR	105	112	122	130	111	118	129	138	116	123	134	143	121	129	141	150	127	135	148	157	132	140	153	163	
	Net Cap	42.1	42.9	44.9	47.9	41.1	41.9	43.9	46.8	40.1	40.9	42.8	45.7	39.1	39.9	41.8	44.6	37.2	37.9	39.7	42.4	34.4	35.1	36.8	39.2	
	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	
	Delta T	26	26	24	21	27	26	25	21	26	26	25	21	26	26	25	22	24	25	25	21	23	23	23	20	
	1400	System KW	2.82	2.88	2.96	3.05	3.02	3.08	3.17	3.27	3.20	3.26	3.36	3.47	3.35	3.42	3.53	3.64	3.49	3.56	3.67	3.78	3.60	3.67	3.79	3.91
		OD amps	10.4	10.7	11.0	11.4	11.2	11.5	11.9	12.3	12.2	12.5	12.9	13.4	13.0	13.4	13.8	14.3	13.9	14.2	14.7	15.2	14.7	15.1	15.6	16.2
		HI PR	234	251	265	277	262	282	298	311	298	321	339	353	340	365	386	402	382	411	434	453	422	454	480	500
LO PR		109	116	127	136	115	122	133	142	119	127	138	147	125	133	145	155	131	140	152	162	136	144	158	168	
Net Cap		43.3	44.2	46.3	49.4	42.3	43.2	45.2	48.2	41.3	42.1	44.1	47.1	40.3	41.1	43.0	45.9	38.3	39.0	40.9	43.6	35.5	36.2	37.9	40.4	
S/T		1.00	0.96	0.87	0.70	1.00	1.00	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.99	0.80	1.00	1.00	1.00	0.81	
Delta T		25	25	23	20	25	25	24	21	24	25	24	21	24	24	24	21	22	23	24	20	21	21	22	19	
1575		System KW	2.85	2.90	2.98	3.07	3.05	3.11	3.20	3.30	3.22	3.29	3.39	3.49	3.38	3.45	3.55	3.67	3.51	3.59	3.70	3.81	3.63	3.70	3.82	3.94
		OD amps	10.5	10.8	11.1	11.5	11.3	11.6	12.0	12.4	12.3	12.6	13.0	13.5	13.2	13.5	13.9	14.5	14.0	14.3	14.8	15.4	14.8	15.2	15.7	16.3
		HI PR	236	254	268	280	265	285	301	314	301	324	342	357	343	369	390	406	386	415	438	457	426	459	484	505
	LO PR	110	117	127	136	116	123	135	143	120	128	140	149	126	135	147	156	133	141	154	164	137	146	159	170	
	Net Cap	43.3	44.2	46.3	49.4	42.3	43.2	45.2	48.2	41.3	42.1	44.1	47.1	40.3	41.1	43.0	45.9	38.3	39.0	40.9	43.6	35.5	36.2	37.9	40.4	
	S/T	1.00	0.96	0.87	0.70	1.00	1.00	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.99	0.80	1.00	1.00	1.00	0.81	
	Delta T	25	25	23	20	25	25	24	21	24	25	24	21	24	24	24	21	22	23	24	20	21	21	22	19	

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

Goodman Manufacturing Company, L.P. reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring

COOLING PERFORMANCE DATA

GSX160481F*

MODEL: GSX160481F*-CA*F4961*6D*+TXV EXPANDED PERFORMANCE DATA

COOLING OPERATION
3/4/2013

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
70	NetCap	4.26	44.2	48.4	-	4.16	43.2	47.3	-	40.7	42.1	46.2	-	39.7	41.1	45.0	-	37.7	39.1	42.8	-	34.9	36.2	39.6	-						
	S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.81	0.67	0.47	-						
	Delta T	2.0	17	13	-	2.0	17	13	-	2.0	17	13	-	2.0	17	13	-	2.0	17	13	-	18	16	12	-						
	System kW	2.95	3.01	3.09	-	3.16	3.22	3.32	-	3.34	3.41	3.51	-	3.50	3.57	3.68	-	3.64	3.71	3.83	-	3.76	3.84	3.95	-						
	OD amps	10.8	11.0	11.4	-	11.7	11.9	12.3	-	12.7	13.0	13.4	-	13.5	13.9	14.3	-	14.4	14.7	15.2	-	15.3	15.6	16.2	-						
	HI PR	221	238	251	-	248	262	282	-	282	304	321	-	321	346	365	-	361	389	411	-	399	430	454	-						
	LO PR	105	112	122	-	111	118	129	-	115	123	134	-	121	129	141	-	127	135	147	-	131	140	152	-						
	NetCap	4.33	44.9	49.2	-	42.3	43.8	48.0	-	41.3	42.8	46.9	-	40.3	41.7	45.7	-	38.3	39.6	43.4	-	35.4	36.7	40.2	-						
	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	-						
	Delta T	1.9	17	13	-	2.0	17	13	-	2.0	17	13	-	2.0	17	13	-	19	17	13	-	18	16	12	-						
System kW	2.99	3.05	3.13	-	3.20	3.26	3.36	-	3.38	3.45	3.56	-	3.53	3.62	3.73	-	3.69	3.76	3.88	-	3.81	3.89	4.01	-							
OD amps	11.0	11.2	11.6	-	11.8	12.1	12.5	-	12.9	13.2	13.6	-	13.7	14.1	14.5	-	14.6	15.0	15.5	-	15.5	15.9	16.4	-							
HI PR	225	242	256	-	252	272	287	-	287	309	326	-	327	352	371	-	368	396	418	-	406	437	462	-							
LO PR	107	114	124	-	113	120	131	-	117	125	136	-	123	131	143	-	129	137	150	-	134	142	155	-							
NetCap	4.48	46.4	50.9	-	43.8	45.4	49.7	-	42.7	44.3	48.5	-	41.7	43.2	47.3	-	39.6	41.0	45.0	-	36.7	38.0	41.6	-							
S/T	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.88	0.74	0.51	-	0.89	0.74	0.51	-							
Delta T	1.8	15	12	-	1.8	16	12	-	1.8	16	12	-	1.8	16	12	-	18	15	12	-	17	14	11	-							
System kW	3.03	3.09	3.18	-	3.25	3.31	3.41	-	3.44	3.51	3.61	-	3.60	3.68	3.79	-	3.75	3.82	3.94	-	3.87	3.95	4.07	-							
OD amps	11.2	11.4	11.8	-	12.1	12.3	12.8	-	13.1	13.4	13.9	-	14.0	14.3	14.8	-	14.9	15.3	15.8	-	15.8	16.2	16.7	-							
HI PR	229	247	261	-	257	277	292	-	293	315	333	-	333	359	379	-	375	404	426	-	414	446	471	-							
LO PR	109	116	127	-	115	122	134	-	120	127	139	-	126	134	146	-	132	140	153	-	136	145	158	-							
1400	NetCap	4.34	44.6	48.3	51.9	42.4	43.6	47.2	50.7	41.3	42.6	46.1	49.5	40.3	41.5	45.0	48.2	38.3	39.5	42.7	45.8	35.5	36.5	39.6	42.5						
	S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.92	0.82	0.62	0.40						
	Delta T	2.3	21	17	12	2.3	21	17	12	2.3	21	17	12	2.3	21	17	12	2.3	21	17	12	2.1	20	16	11						
	System kW	2.97	3.03	3.12	3.21	3.18	3.25	3.34	3.44	3.37	3.43	3.54	3.65	3.53	3.60	3.71	3.83	3.67	3.74	3.86	3.98	3.79	3.87	3.99	4.11						
	OD amps	10.9	11.2	11.5	11.9	11.8	12.0	12.4	12.9	12.8	13.1	13.5	14.0	13.7	14.0	14.5	15.0	14.5	14.9	15.4	16.0	15.4	15.8	16.3	16.9						
	HI PR	223	240	254	265	251	270	285	297	285	307	324	338	325	349	369	385	365	383	415	433	403	434	458	478						
	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						
	NetCap	4.40	45.3	49.1	52.7	43.0	44.3	47.9	51.4	42.0	43.2	46.8	50.2	41.0	42.2	45.6	49.0	38.9	40.1	43.4	46.5	36.0	37.1	40.2	43.1						
	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						
	Delta T	2.2	21	17	12	2.3	21	17	12	2.3	21	17	12	2.3	21	17	12	2.2	21	17	12	2.1	19	16	11						
System kW	3.01	3.07	3.16	3.25	3.22	3.29	3.38	3.49	3.41	3.48	3.59	3.70	3.58	3.65	3.76	3.88	3.72	3.79	3.91	4.04	3.84	3.92	4.04	4.17							
OD amps	11.1	11.3	11.7	12.1	12.0	12.2	12.6	13.1	13.0	13.3	13.7	14.3	13.9	14.2	14.7	15.2	14.8	15.1	15.6	16.2	15.6	16.0	16.6	17.2							
HI PR	227	244	258	269	255	274	290	302	290	312	329	344	330	365	375	391	371	400	422	440	410	442	466	486							
LO PR	108	115	125	133	114	121	132	141	118	126	138	147	124	132	145	154	130	139	151	161	135	144	157	167							
NetCap	4.56	46.9	50.8	54.5	44.5	45.8	49.6	53.2	43.4	44.7	48.4	52.0	42.4	43.6	47.2	50.7	40.3	41.5	44.9	48.2	37.3	38.4	41.6	44.6							
S/T	0.88	0.79	0.60	0.38	0.91	0.82	0.62	0.40	0.93	0.84	0.63	0.41	0.96	0.86	0.65	0.42	1.00	0.90	0.68	0.44	1.00	0.90	0.68	0.44							
Delta T	2.0	19	15	11	2.1	19	16	11	2.1	19	16	11	2.1	19	16	11	2.1	19	16	11	1.9	18	15	10							
System kW	3.05	3.11	3.20	3.30	3.27	3.34	3.44	3.54	3.46	3.53	3.64	3.75	3.63	3.71	3.82	3.94	3.78	3.85	3.97	4.10	3.90	3.98	4.11	4.24							
OD amps	11.3	11.5	11.9	12.3	12.2	12.5	12.9	13.4	13.2	13.5	14.0	14.5	14.1	14.5	15.0	15.5	15.0	15.4	15.9	16.5	15.9	16.3	16.9	17.5							
HI PR	232	249	263	275	260	280	295	308	296	318	336	350	337	362	383	399	379	408	431	449	419	451	476	496							
LO PR	110	117	128	136	116	124	135	144	121	129	140	149	127	135	147	157	133	142	155	165	138	146	160	170							
1500	NetCap	4.34	44.6	48.3	51.9	42.4	43.6	47.2	50.7	41.3	42.6	46.1	49.5	40.3	41.5	45.0	48.2	38.3	39.5	42.7	45.8	35.5	36.5	39.6	42.5						
	S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.92	0.82	0.62	0.40						
	Delta T	2.3	21	17	12	2.3	21	17	12	2.3	21	17	12	2.3	21	17	12	2.3	21	17	12	2.1	20	16	11						
	System kW	2.97	3.03	3.12	3.21	3.18	3.25	3.34	3.44	3.37	3.43	3.54	3.65	3.53	3.60	3.71	3.83	3.67	3.74	3.86	3.98	3.79	3.87	3.99	4.11						
	OD amps	10.9	11.2	11.5	11.9	11.8	12.0	12.4	12.9	12.8	13.1	13.5	14.0	13.7	14.0	14.5	15.0	14.5	14.9	15.4	16.0	15.4	15.8	16.3	16.9						
	HI PR	223	240	254	265	251	270	285	297	285	307	324	338	325	349	369	385	365	383	415	433	403	434	458	478						
	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						
	NetCap	4.40	45.3	49.1	52.7	43.0	44.3	47.9	51.4	42.0	43.2	46.8	50.2	41.0	42.2	45.6	49.0	38.9	40.1	43.4	46.5	36.0	37.1	40.2	43.1						
	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						
	Delta T	2.2	21	17	12	2.3	21	17	12	2.3	21	17	12	2.3	21	17	12	2.2	21	17	12	2.1	19	16	11						
System kW	3.01	3.07	3.16	3.25	3.22	3.29	3.38	3.49	3.41	3.48	3.59	3.70	3.58	3.65	3.76	3.88	3.72	3.79	3.91	4.04	3.84	3.92	4.04	4.17							
OD amps	11.1	11.3	11.7	12.1	12.0	12.2	12.6	13.1	13.0	13.3	13.7	14.3	13.9	14.2	14.7	15.2	14.8	15.1	15.6	16.2	15.6	16.0	16.6	17.2							
HI PR	227	244	258	269	255	274	290	302	290	312	329	344	330	365	375	391	371	400	422	440	410	442	466	486							
LO PR	108	115	125	133	114	121	132	141	118	126	13																				

COOLING PERFORMANCE DATA

GSX160481F*

MODEL: GSX160481F*-CA*F4961*6D*+TXV EXPANDED PERFORMANCE DATA

3/4/2013

COOLING OPERATION

Table with columns for IDB* Airflow, Outdoor Ambient Temperature (65, 75, 85, 95, 105, 115), and various performance metrics (Net Cap, S/T, Delta T, System kW, OD amps, HI PR, LO PR) for airflows of 1400, 1500, 1800, and 85.

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is A HRI Rating Conditions

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COOLING PERFORMANCE DATA

GSX160601F*

MODEL: GSX160601F*-CA*F4961*6D*+TXV EXPANDED PERFORMANCE DATA

COOLING OPERATION
3/4/2013

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	NetCap	51.9	53.8	58.9	-	50.7	52.5	57.6	-	49.5	51.3	56.2	-	48.3	50.0	54.8	-	45.9	47.5	52.1	-	42.5	44.0	48.2	-
	S/T	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-
	Delta T	2.0	1.8	1.3	-	2.0	1.8	1.3	-	2.1	1.8	1.3	-	2.1	1.8	1.4	-	2.0	1.8	1.3	-	1.9	1.6	1.2	-
	System KW	3.55	3.62	3.73	-	3.80	3.88	3.99	-	4.03	4.11	4.23	-	4.22	4.31	4.44	-	4.39	4.48	4.62	-	4.53	4.63	4.77	-
	OD amps	13.2	13.5	14.0	-	14.3	14.6	15.1	-	15.5	15.9	16.4	-	16.6	17.0	17.5	-	17.6	18.0	18.6	-	18.6	19.1	19.7	-
	HI PR	217	233	246	-	243	262	276	-	276	297	314	-	315	339	358	-	354	381	403	-	391	421	445	-
	LO PR	103	109	119	-	109	115	126	-	113	120	131	-	118	126	138	-	124	132	144	-	128	137	149	-
	NetCap	51.4	53.2	58.3	-	50.2	52.0	57.0	-	49.0	50.8	55.6	-	47.8	49.5	54.3	-	45.4	47.1	51.6	-	42.1	43.6	47.8	-
	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	-
	Delta T	2.1	1.8	1.4	-	2.1	1.9	1.4	-	2.1	1.9	1.4	-	2.2	1.9	1.4	-	2.1	1.8	1.4	-	2.0	1.7	1.3	-
System KW	3.55	3.61	3.72	-	3.80	3.87	3.99	-	4.02	4.10	4.22	-	4.21	4.30	4.43	-	4.38	4.47	4.61	-	4.52	4.61	4.76	-	
OD amps	13.2	13.5	13.9	-	14.2	14.6	15.1	-	15.5	15.8	16.3	-	16.5	16.9	17.5	-	17.6	18.0	18.6	-	18.6	19.0	19.7	-	
HI PR	216	232	245	-	242	261	275	-	276	297	313	-	314	338	357	-	353	380	401	-	390	420	443	-	
LO PR	102	109	119	-	108	115	126	-	112	120	131	-	118	126	137	-	124	132	144	-	128	136	149	-	
NetCap	53.2	55.1	60.4	-	51.9	53.8	59.0	-	50.7	52.5	57.6	-	49.5	51.3	56.2	-	47.0	48.7	53.4	-	43.5	45.1	49.4	-	
S/T	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.88	0.74	0.51	-	0.89	0.74	0.51	-	
Delta T	1.7	1.5	1.1	-	1.7	1.5	1.1	-	1.7	1.5	1.1	-	1.7	1.5	1.1	-	1.7	1.5	1.1	-	1.6	1.4	1.0	-	
System KW	3.60	3.67	3.77	-	3.85	3.93	4.05	-	4.08	4.16	4.29	-	4.28	4.36	4.50	-	4.44	4.54	4.68	-	4.59	4.69	4.83	-	
OD amps	13.4	13.7	14.2	-	14.5	14.8	15.3	-	15.7	16.1	16.6	-	16.8	17.2	17.8	-	17.9	18.3	18.9	-	18.9	19.4	20.0	-	
HI PR	220	237	250	-	247	266	281	-	281	303	319	-	320	345	364	-	360	388	409	-	398	428	452	-	
LO PR	104	111	121	-	110	117	128	-	115	122	133	-	120	128	140	-	126	134	147	-	131	139	152	-	
75	NetCap	52.8	54.3	58.8	63.1	51.5	53.1	57.4	61.6	50.3	51.8	56.1	60.2	49.1	50.5	54.7	58.7	46.6	48.0	52.0	55.8	43.2	44.5	48.1	51.7
	S/T	0.84	0.75	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	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.42
	Delta T	2.3	2.2	1.8	1.2	2.4	2.2	1.8	1.2	2.4	2.2	1.8	1.2	2.4	2.2	1.8	1.2	2.4	2.2	1.8	1.2	2.2	2.0	1.7	1.1
	System KW	3.58	3.65	3.76	3.87	3.83	3.91	4.03	4.15	4.06	4.14	4.26	4.40	4.25	4.34	4.48	4.62	4.42	4.51	4.65	4.80	4.57	4.66	4.81	4.96
	OD amps	13.4	13.7	14.1	14.6	14.4	14.8	15.2	15.8	15.6	16.0	16.5	17.2	16.7	17.1	17.7	18.3	17.8	18.2	18.8	19.5	18.8	19.3	19.9	20.7
	HI PR	219	235	249	259	246	264	279	291	279	301	317	331	318	342	361	377	358	385	407	424	395	425	449	469
	LO PR	104	110	121	128	110	117	127	136	114	121	132	141	120	127	139	148	125	133	146	155	130	138	151	160
	NetCap	52.2	53.8	58.2	62.5	51.0	52.5	56.9	61.0	49.8	51.3	55.5	59.6	48.6	50.0	54.2	58.1	46.2	47.5	51.5	55.2	42.8	44.0	47.7	51.2
	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
	Delta T	2.4	2.3	1.8	1.3	2.5	2.3	1.9	1.3	2.5	2.3	1.9	1.3	2.5	2.3	1.9	1.3	2.5	2.3	1.9	1.3	2.3	2.1	1.7	1.2
System KW	3.57	3.64	3.75	3.86	3.82	3.90	4.02	4.14	4.05	4.13	4.25	4.39	4.24	4.33	4.46	4.60	4.41	4.50	4.64	4.79	4.56	4.65	4.80	4.95	
OD amps	13.3	13.6	14.1	14.6	14.4	14.7	15.2	15.8	15.6	16.0	16.5	17.1	16.7	17.1	17.6	18.3	17.7	18.2	18.8	19.5	18.8	19.2	19.9	20.6	
HI PR	218	235	248	259	245	263	278	290	278	300	316	330	317	341	360	376	357	384	405	423	394	424	448	467	
LO PR	103	110	120	128	109	116	127	135	114	121	132	141	119	127	139	148	125	133	145	155	129	138	150	160	
NetCap	54.1	55.7	60.3	64.7	52.8	54.4	58.9	63.2	51.6	53.1	57.5	61.7	50.3	51.8	56.1	60.2	47.8	49.2	53.3	57.2	44.3	45.6	49.3	52.9	
S/T	0.88	0.79	0.60	0.38	0.91	0.82	0.62	0.40	0.93	0.84	0.63	0.41	0.96	0.86	0.65	0.42	1.00	0.90	0.68	0.44	1.00	0.90	0.68	0.44	
Delta T	1.9	1.8	1.5	1.0	2.0	1.8	1.5	1.0	2.0	1.8	1.5	1.0	2.0	1.8	1.5	1.0	2.0	1.8	1.5	1.0	1.8	1.7	1.4	1.0	
System KW	3.62	3.69	3.80	3.92	3.88	3.96	4.08	4.20	4.11	4.19	4.32	4.45	4.31	4.40	4.53	4.68	4.48	4.57	4.72	4.87	4.63	4.73	4.87	5.03	
OD amps	13.6	13.9	14.3	14.8	14.6	15.0	15.5	16.0	15.9	16.3	16.8	17.4	17.0	17.4	17.9	18.6	18.0	18.5	19.1	19.8	19.1	19.6	20.2	21.0	
HI PR	223	239	253	264	250	269	284	296	284	306	323	337	323	348	368	383	364	392	414	431	402	433	457	477	
LO PR	106	112	123	131	111	119	129	138	116	123	135	143	122	129	141	151	128	136	148	158	132	140	153	163	

* Entering Indoor Dry Bulb Temperature
NOTE: Shaded area is ACCA (TVA) conditions
Goodman Manufacturing Company, L.P. reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring

COOLING PERFORMANCE DATA

GSX160601F*

MODEL: GSX160601F*-CA*F4961*6D*+TXV EXPANDED PERFORMANCE DATA

COOLING OPERATION
3/4/2013

IDB*	Airflow	Outdoor Ambient Temperature																																			
		65						75						85						95						105						115					
		59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79						
80	Net Cap	53.7	54.9	56.6	62.7	52.5	53.6	57.3	61.2	51.2	52.3	55.9	59.8	50.0	51.0	54.5	58.3	47.5	48.5	51.8	55.4	44.0	44.9	48.0	51.3												
	S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.98	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	0.99	0.80	0.60	1.00	1.00	0.81	0.61												
	Delta T	2.6	2.5	2.2	1.7	2.6	2.5	2.2	1.8	2.6	2.5	2.2	1.8	2.6	2.6	2.2	1.8	2.5	2.5	2.2	1.7	2.3	2.4	2.0	1.6												
	System KW	3.61	3.68	3.78	3.90	3.86	3.94	4.06	4.18	4.09	4.17	4.30	4.43	4.29	4.38	4.51	4.65	4.46	4.55	4.69	4.84	4.60	4.70	4.85	5.00												
	OD amps	13.5	13.8	14.2	14.8	14.5	14.9	15.4	15.9	15.8	16.2	16.7	17.3	16.9	17.3	17.8	18.5	17.9	18.4	19.0	19.7	19.0	19.5	20.1	20.9												
	HI PR	221	238	251	262	248	267	282	294	282	304	321	334	321	346	365	381	361	389	411	428	399	430	454	473												
	LO PR	105	112	122	130	111	118	129	137	115	122	134	142	121	129	140	150	127	135	147	157	131	139	152	162												
	Net Cap	53.2	54.3	58.1	62.1	51.9	53.1	56.7	60.6	50.7	51.8	55.4	59.2	49.5	50.5	54.0	57.7	47.0	48.0	51.3	54.8	43.5	44.5	47.5	50.8												
	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	1.00	0.98	0.80	0.59											
	Delta T	2.7	2.6	2.3	1.8	2.8	2.6	2.3	1.8	2.8	2.7	2.3	1.8	2.8	2.7	2.3	1.9	2.7	2.6	2.3	1.8	2.5	2.5	2.1	1.7												
System KW	3.60	3.67	3.77	3.89	3.85	3.93	4.05	4.17	4.08	4.16	4.29	4.42	4.28	4.37	4.50	4.64	4.45	4.54	4.68	4.83	4.59	4.69	4.84	4.99													
OD amps	13.4	13.8	14.2	14.7	14.5	14.8	15.3	15.9	15.7	16.1	16.7	17.3	16.8	17.2	17.8	18.5	17.9	18.3	18.9	19.6	18.9	19.4	20.1	20.8													
HI PR	220	237	250	261	247	266	281	293	281	303	320	333	320	345	364	380	360	388	410	427	398	428	452	472													
LO PR	105	111	121	129	110	117	128	137	115	122	133	142	121	128	140	149	126	134	147	156	131	139	152	162													
Net Cap	55.0	56.2	60.1	64.2	53.8	54.9	58.7	62.7	52.5	53.6	57.3	61.2	51.2	52.3	55.9	59.7	48.6	49.7	53.1	56.8	45.1	46.0	49.2	52.6													
S/T	0.96	0.90	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.96	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.84	0.63	1.00	1.00	0.85	0.63													
Delta T	2.2	2.1	1.8	1.4	2.2	2.1	1.8	1.5	2.1	2.1	1.8	1.5	2.1	2.1	1.8	1.5	2.0	2.0	1.8	1.5	1.8	1.9	1.7	1.4													
System KW	3.65	3.72	3.83	3.95	3.91	3.99	4.11	4.23	4.14	4.23	4.35	4.49	4.34	4.43	4.57	4.72	4.52	4.61	4.75	4.91	4.66	4.76	4.91	5.07													
OD amps	13.7	14.0	14.4	15.0	14.8	15.1	15.6	16.2	16.0	16.4	17.0	17.6	17.1	17.5	18.1	18.8	18.2	18.7	19.3	20.0	19.3	19.8	20.4	21.2													
HI PR	225	242	255	266	252	271	287	299	287	309	326	340	327	309	326	341	387	368	396	418	436	406	437	462	481												
LO PR	107	113	124	132	113	120	131	139	117	125	136	145	123	131	143	152	129	137	150	159	133	142	155	165													
85	Net Cap	54.6	55.7	58.3	62.2	53.4	54.4	57.0	60.8	52.1	53.1	55.6	59.3	50.8	51.8	54.3	57.9	48.3	49.2	51.6	55.0	44.7	45.6	47.8	50.9												
	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												
	Delta T	2.8	2.7	2.6	2.2	2.8	2.8	2.6	2.3	2.7	2.8	2.6	2.3	2.7	2.7	2.6	2.3	2.5	2.6	2.6	2.3	2.3	2.4	2.4	2.1												
	System KW	3.63	3.70	3.81	3.93	3.89	3.97	4.09	4.21	4.12	4.20	4.33	4.47	4.32	4.41	4.55	4.69	4.49	4.59	4.73	4.88	4.64	4.74	4.89	5.04												
	OD amps	13.6	13.9	14.4	14.9	14.7	15.0	15.5	16.1	15.9	16.3	16.8	17.5	17.0	17.4	18.0	18.7	18.1	18.5	19.2	19.9	19.2	19.6	20.3	21.1												
	HI PR	223	240	254	265	251	270	285	297	285	307	324	338	324	349	369	385	365	393	415	433	403	434	458	478												
	LO PR	106	113	123	131	112	119	130	138	116	124	135	144	122	130	142	151	128	136	149	158	132	141	154	164												
	Net Cap	54.1	55.1	57.8	61.6	52.8	53.9	56.4	60.2	51.6	52.6	55.1	58.8	50.3	51.3	53.7	57.3	47.8	48.7	51.0	54.5	44.3	45.1	47.3	50.4												
	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												
	Delta T	2.9	2.9	2.7	2.3	2.9	2.9	2.7	2.4	2.9	2.9	2.7	2.4	2.8	2.9	2.8	2.4	2.7	2.8	2.7	2.4	2.5	2.6	2.5	2.2												
System KW	3.62	3.70	3.80	3.92	3.88	3.96	4.08	4.20	4.11	4.19	4.32	4.46	4.31	4.40	4.54	4.68	4.48	4.57	4.72	4.87	4.63	4.73	4.87	5.03													
OD amps	13.6	13.9	14.3	14.8	14.6	15.0	15.5	16.0	15.9	16.3	16.8	17.4	17.0	17.4	18.0	18.6	18.0	18.5	19.1	19.8	19.1	19.6	20.2	21.0													
HI PR	223	240	253	264	250	269	284	296	284	306	323	337	324	348	368	383	364	392	414	431	402	433	457	477													
LO PR	106	112	123	131	112	119	130	138	116	123	135	143	122	130	141	151	128	136	148	158	132	140	153	163													
Net Cap	56.0	57.1	59.8	63.8	54.7	55.8	58.4	62.3	53.4	54.4	57.0	60.8	52.1	53.1	55.6	59.3	49.5	50.4	52.8	56.4	45.8	46.7	48.9	52.2													
S/T	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.78	1.00	1.00	0.94	0.81	1.00	1.00	0.95	0.82													
Delta T	2.3	2.3	2.2	1.9	2.2	2.3	2.2	1.9	2.2	2.2	2.2	1.9	2.1	2.2	2.2	1.9	2.0	2.1	2.2	1.9	1.9	1.9	2.0	1.7													
System KW	3.68	3.75	3.86	3.98	3.94	4.02	4.14	4.27	4.17	4.26	4.39	4.53	4.38	4.47	4.61	4.75	4.55	4.65	4.79	4.95	4.70	4.80	4.95	5.11													
OD amps	13.8	14.1	14.6	15.1	14.9	15.3	15.8	16.3	16.2	16.6	17.1	17.7	17.3	17.7	18.3	19.0	18.4	18.8	19.5	20.2	19.5	19.9	20.6	21.4													
HI PR	227	244	258	269	255	274	289	302	290	312	329	343	330	355	375	391	371	400	422	440	410	441	466	486													
LO PR	108	115	125	133	114	121	132	141	118	126	137	146	124	132	144	154	130	138	151	161	135	143	156	167													

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

Goodman Manufacturing Company, L.P. reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring

COOLING PERFORMANCE DATA

GSX160611F*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSX160611F* / CA*F4961D*6A* + TXV / Design Subcooling @ ARI 95°F Conditions, 7° ±2°F @ the Serv. Vlv.

IDB* Airflow	Outdoor Ambient Temperature																																				
	65						75						85						95						105						115						
	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	
1550	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	-	0.75	0.62	0.43	-	0.75	0.63	0.44	-	0.75	0.63	0.44	-	44.4	46.0	50.4	-
	S/T	0.66	0.55	0.38	-	0.68	0.57	0.39	-	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.75	0.62	0.43	-	0.75	0.62	0.43	-	0.75	0.63	0.44	-	0.75	0.63	0.44	-	0.75	0.63	0.44	-
	Delta T	21	18	14	-	21	19	14	-	21	19	14	-	22	19	14	-	21	18	14	-	21	18	14	-	21	18	14	-	20	17	13	-	20	17	13	-
	KW	3.75	3.83	3.95	-	4.04	4.13	4.27	-	4.31	4.40	4.55	-	4.54	4.64	4.79	-	4.73	4.84	5.00	-	4.73	4.84	5.00	-	4.73	4.84	5.00	-	4.90	5.01	5.18	-	4.90	5.01	5.18	-
	AMPS	13.4	13.8	14.3	-	14.6	15.0	15.5	-	16.0	16.4	17.0	-	17.2	17.6	18.3	-	18.4	18.8	19.5	-	18.4	18.8	19.5	-	18.4	18.8	19.5	-	19.5	20.0	20.8	-	19.5	20.0	20.8	-
	LO PR	113	116	127	-	116	120	131	-	120	124	135	-	123	127	139	-	126	130	141	-	126	130	141	-	126	130	141	-	129	133	145	-	129	133	145	-
1750	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	-	49.4	51.2	56.1	-	49.4	51.2	56.1	-	45.7	47.4	51.9	-	45.7	47.4	51.9	-
	S/T	0.69	0.58	0.40	-	0.71	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.66	0.45	-	0.78	0.66	0.45	-	0.78	0.66	0.45	-	0.79	0.66	0.46	-	0.79	0.66	0.46	-
	Delta T	20	18	13	-	20	18	13	-	20	18	13	-	21	18	14	-	20	18	13	-	20	18	13	-	20	18	13	-	19	16	12	-	19	16	12	-
	KW	3.78	3.86	3.99	-	4.08	4.17	4.31	-	4.34	4.44	4.59	-	4.57	4.68	4.83	-	4.77	4.88	5.05	-	4.77	4.88	5.05	-	4.77	4.88	5.05	-	4.94	5.06	5.23	-	4.94	5.06	5.23	-
	AMPS	13.6	13.9	14.4	-	14.8	15.1	15.7	-	16.1	16.6	17.2	-	17.3	17.8	18.4	-	18.5	19.0	19.7	-	18.5	19.0	19.7	-	18.5	19.0	19.7	-	19.7	20.2	21.0	-	19.7	20.2	21.0	-
	LO PR	114	117	128	-	117	121	132	-	121	125	136	-	124	128	140	-	127	131	143	-	127	131	143	-	127	131	143	-	130	134	146	-	130	134	146	-
2000	MBh	56.1	58.2	63.7	-	54.8	56.8	62.3	-	53.5	55.5	60.8	-	52.2	54.1	59.3	-	49.6	51.4	56.3	-	49.6	51.4	56.3	-	49.6	51.4	56.3	-	45.9	47.6	52.2	-	45.9	47.6	52.2	-
	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	-	0.80	0.66	0.46	-	0.80	0.66	0.46	-	0.80	0.66	0.46	-	0.80	0.67	0.46	-	0.80	0.67	0.46	-
	Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-
	KW	3.81	3.89	4.02	-	4.11	4.20	4.34	-	4.38	4.48	4.63	-	4.61	4.72	4.88	-	4.81	4.92	5.09	-	4.81	4.92	5.09	-	4.81	4.92	5.09	-	4.98	5.10	5.27	-	4.98	5.10	5.27	-
	AMPS	13.7	14.1	14.6	-	14.9	15.3	15.8	-	16.3	16.7	17.3	-	17.5	18.0	18.6	-	18.7	19.2	19.9	-	18.7	19.2	19.9	-	18.7	19.2	19.9	-	19.9	20.4	21.2	-	19.9	20.4	21.2	-
	LO PR	115	119	129	-	118	122	133	-	122	126	138	-	126	130	141	-	126	130	141	-	126	130	141	-	126	130	141	-	131	135	148	-	131	135	148	-
1550	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	48.7	50.2	54.3	58.3	45.1	46.5	50.3	54.0	48.7	50.2	54.3	58.3
	S/T	0.75	0.67	0.51	0.33	0.77	0.69	0.52	0.34	0.79	0.71	0.54	0.35	0.82	0.73	0.55	0.36	0.85	0.76	0.58	0.37	0.86	0.77	0.58	0.37	0.85	0.76	0.58	0.37	0.86	0.77	0.58	0.37	0.86	0.77	0.58	0.37
	Delta T	24	23	18	13	25	23	19	13	25	23	19	13	25	23	19	13	25	23	19	13	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12
	KW	3.75	3.83	3.95	4.08	4.04	4.13	4.27	4.41	4.31	4.40	4.55	4.70	4.54	4.64	4.79	4.96	4.73	4.84	5.00	5.18	4.73	4.84	5.00	5.18	4.90	5.01	5.18	5.36	4.90	5.01	5.18	5.36	4.90	5.01	5.18	5.36
	AMPS	13.4	13.8	14.3	14.8	14.6	15.0	15.5	16.2	16.0	16.4	17.0	17.7	17.2	17.6	18.3	19.0	18.4	18.8	19.5	20.3	18.4	18.8	19.5	20.3	19.5	20.0	20.8	21.6	19.5	20.0	20.8	21.6	19.5	20.0	20.8	21.6
	LO PR	113	116	127	135	116	120	131	139	120	124	135	144	123	127	139	148	126	130	141	151	126	130	141	151	129	133	145	154	129	133	145	154	129	133	145	154
1750	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	50.2	51.7	55.9	60.0	46.5	47.9	51.8	55.6	46.5	47.9	51.8	55.6
	S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.80	0.60	0.39	0.89	0.80	0.60	0.39	0.90	0.80	0.60	0.39	0.90	0.80	0.60	0.39
	Delta T	23	22	18	12	24	22	18	12	24	22	18	12	24	22	18	12	24	22	18	12	22	20	17	11	22	20	17	11	22	20	17	11	22	20	17	11
	KW	3.78	3.86	3.99	4.12	4.08	4.17	4.31	4.45	4.34	4.44	4.59	4.74	4.57	4.68	4.83	5.00	4.77	4.88	5.05	5.22	4.77	4.88	5.05	5.22	4.94	5.06	5.23	5.41	4.94	5.06	5.23	5.41	4.94	5.06	5.23	5.41
	AMPS	13.6	13.9	14.4	15.0	14.8	15.1	15.7	16.3	16.1	16.6	17.2	17.9	17.3	17.8	18.4	19.2	18.5	19.0	19.7	20.5	18.5	19.0	19.7	20.5	19.7	20.2	21.0	21.8	19.7	20.2	21.0	21.8	19.7	20.2	21.0	21.8
	LO PR	114	117	128	137	117	121	132	141	121	125	136	145	124	128	140	149	127	131	143	152	127	131	143	152	130	134	146	156	130	134	146	156	130	134	146	156
2000	MBh	57.1	58.8	63.6	68.3	55.8	57.4	62.1	66.7	54.4	56.0	60.7	65.1	53.1	54.7	59.2	63.5	50.4	51.9	56.2	60.3	46.7	48.1	52.1	55.9	50.4	51.9	56.2	60.3	46.7	48.1	52.1	55.9	46.7	48.1	52.1	55.9
	S/T	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	0.91	0.82	0.62	0.40	0.90	0.81	0.61	0.39	0.91	0.82	0.62	0.40	0.91	0.82	0.62	0.40
	Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	20	18	15	10	20	18	15	10	20	18	15	10
	KW	3.81	3.89	4.02	4.15	4.11	4.20	4.34	4.49	4.38	4.48	4.63	4.78	4.61	4.72	4.88	5.04	4.81	4.92	5.09	5.26	4.81	4.92	5.09	5.26	4.98	5.10	5.27	5.46	4.98	5.10	5.27	5.46	4.98	5.10	5.27	5.46
	AMPS	13.7	14.1	14.6	15.1	14.9	15.3	15.8	16.5	16.3	16.7	17.3	18.0	17.5	18.0	18.6	19.4	18.7	19.2	19.9	20.7	18.7	19.2	19.9	20.7	19.9	20.4	21.2	22.0	19.9	20.4	21.2	22.0	19.9	20.4	21.2	22.0
	LO PR	115	119	129	138	118	122	133	142	122	126	138	147	126	130	141	151	126	130	141	151	126	130	141	151	131	135	148	157	131	135	148	157	131	135	148	157

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

GSX160611F*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GSX160611F* / CA*F4961D*6A* + TXV / Design Subcooling @ ARI 95°F Conditions, 7° ±2°F @ the Serv. Viv.

IDB*	Airflow	Outdoor Ambient Temperature																											
		65					75					85					95					105					115		
80	1550	MBh	56.1	57.4	61.3	65.5	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
		ST	0.82	0.77	0.63	0.47	0.85	0.80	0.65	0.48	0.87	0.82	0.66	0.50	0.90	0.84	0.69	0.51	0.93	0.87	0.71	0.53	0.94	0.88	0.72	0.54			
		Delta T	27	26	23	18	28	26	23	18	28	26	23	18	28	27	23	19	27	26	23	18	26	25	21	17			
	KW	3.75	3.83	3.95	4.08	4.04	4.13	4.27	4.41	4.31	4.40	4.55	4.70	4.54	4.64	4.79	4.96	4.73	4.84	5.00	5.18	4.90	5.01	5.18	5.36				
	AMPS	13.4	13.8	14.3	14.8	14.6	15.0	15.5	16.2	16.0	16.4	17.0	17.7	17.2	17.6	18.3	19.0	18.4	18.8	19.5	20.3	19.5	20.0	20.8	21.6				
	HIPR	227	244	248	253	257	276	280	286	292	314	318	326	333	358	363	371	359	386	392	400	426	458	464	475				
	LOPR	113	116	127	135	116	120	131	139	120	124	135	144	123	127	139	148	126	130	141	151	129	133	145	154				
	MBh	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	47.3	48.4	51.7	55.2				
	ST	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	1.00	0.92	0.75	0.56	1.00	0.93	0.75	0.56				
	Delta T	26	25	22	17	26	25	22	18	26	25	22	18	27	26	22	18	27	25	22	17	25	24	20	16				
	KW	3.78	3.86	3.99	4.12	4.08	4.17	4.31	4.45	4.34	4.44	4.59	4.74	4.57	4.68	4.83	5.00	4.77	4.88	5.05	5.22	4.94	5.06	5.23	5.41				
	AMPS	13.6	13.9	14.4	15.0	14.8	15.1	15.7	16.3	16.1	16.6	17.2	17.9	17.3	17.8	18.4	19.2	18.5	19.0	19.7	20.5	19.7	20.2	21.0	21.8				
	HIPR	229	247	250	256	259	279	283	289	295	317	322	329	336	361	366	374	363	390	396	404	430	462	469	479				
	LOPR	114	117	128	137	117	121	132	141	121	125	136	145	124	128	140	149	127	131	143	152	130	134	146	156				
	MBh	58.1	59.4	63.4	67.8	56.7	58.0	61.9	66.2	55.4	56.6	60.5	64.6	54.0	55.2	59.0	63.1	51.3	52.5	56.0	59.9	47.6	48.6	51.9	55.5				
ST	0.87	0.82	0.66	0.50	0.90	0.85	0.69	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.94	0.76	0.57					
Delta T	23	22	19	15	24	23	20	16	24	23	20	16	24	23	20	16	24	22	19	16	22	21	18	15					
KW	3.81	3.89	4.02	4.15	4.11	4.20	4.34	4.49	4.38	4.48	4.63	4.78	4.61	4.72	4.88	5.04	4.81	4.92	5.09	5.26	4.98	5.10	5.27	5.46					
AMPS	13.7	14.1	14.6	15.1	14.9	15.3	15.8	16.5	16.3	16.7	17.3	18.0	17.5	18.0	18.6	19.4	18.7	19.2	19.9	20.7	19.9	20.4	21.2	22.0					
HIPR	232	249	253	258	262	282	286	292	298	320	325	332	339	365	370	378	366	394	400	408	434	467	474	484					
LOPR	115	119	129	138	118	122	133	142	122	126	138	147	126	130	141	151	128	132	144	154	131	135	148	157					
85	1550	MBh	57.1	58.2	61.0	65.0	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
		ST	0.86	0.83	0.75	0.61	0.89	0.86	0.78	0.63	0.91	0.88	0.80	0.65	0.94	0.91	0.82	0.67	0.98	0.94	0.85	0.69	0.99	0.95	0.86	0.70			
		Delta T	29	29	27	23	29	29	27	24	29	29	27	24	30	29	28	24	29	29	27	24	27	27	25	22			
	KW	3.75	3.83	3.95	4.08	4.04	4.13	4.27	4.41	4.31	4.40	4.55	4.70	4.54	4.64	4.79	4.96	4.73	4.84	5.00	5.18	4.90	5.01	5.18	5.36				
	AMPS	13.4	13.8	14.3	14.8	14.6	15.0	15.5	16.2	16.0	16.4	17.0	17.7	17.2	17.6	18.3	19.0	18.4	18.8	19.5	20.3	19.5	20.0	20.8	21.6				
	HIPR	227	244	248	253	257	276	280	286	292	314	318	326	333	358	363	371	359	386	392	400	426	458	464	475				
	LOPR	113	116	127	135	116	120	131	139	120	124	135	144	123	127	139	148	126	130	141	151	129	133	145	154				
	MBh	58.8	60.0	62.8	67.0	57.5	58.6	61.3	65.4	56.1	57.2	60.9	63.9	54.7	55.8	58.4	62.3	52.0	53.0	56.5	59.2	48.2	49.1	51.4	54.8				
	ST	0.90	0.87	0.78	0.64	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.90	0.73				
	Delta T	28	27	26	22	28	28	26	23	28	28	26	23	28	28	26	23	27	28	26	23	25	26	24	21				
	KW	3.78	3.86	3.99	4.12	4.08	4.17	4.31	4.45	4.34	4.44	4.59	4.74	4.57	4.68	4.83	5.00	4.77	4.88	5.05	5.22	4.94	5.06	5.23	5.41				
	AMPS	13.6	13.9	14.4	15.0	14.8	15.1	15.7	16.3	16.1	16.6	17.2	17.9	17.3	17.8	18.4	19.2	18.5	19.0	19.7	20.5	19.7	20.2	21.0	21.8				
	HIPR	229	247	250	256	259	279	283	289	295	317	322	329	336	361	366	374	363	390	396	404	430	462	469	479				
	LOPR	114	117	128	137	117	121	132	141	121	125	136	145	124	128	140	149	127	131	143	152	130	134	146	156				
	MBh	59.1	60.3	63.1	67.3	57.7	58.8	61.6	65.8	56.4	57.4	60.2	64.2	55.0	56.0	58.7	62.6	52.2	53.2	56.8	59.5	48.4	49.3	51.7	55.1				
ST	0.91	0.88	0.80	0.65	0.95	0.91	0.82	0.67	0.97	0.94	0.84	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.91	0.73	1.00	1.00	0.91	0.74					
Delta T	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	24	24	23	20	22	23	22	19					
KW	3.81	3.89	4.02	4.15	4.11	4.20	4.34	4.49	4.38	4.48	4.63	4.78	4.61	4.72	4.88	5.04	4.81	4.92	5.09	5.26	4.98	5.10	5.27	5.46					
AMPS	13.7	14.1	14.6	15.1	14.9	15.3	15.8	16.5	16.3	16.7	17.3	18.0	17.5	18.0	18.6	19.4	18.7	19.2	19.9	20.7	19.9	20.4	21.2	22.0					
HIPR	232	249	253	258	262	282	286	292	298	320	325	332	339	365	370	378	366	394	400	408	434	467	474	484					
LOPR	115	119	129	138	118	122	133	142	122	126	138	147	126	130	141	151	128	132	144	154	131	135	148	157					

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

PERFORMANCE DATA

GSX160[18-36]1F*

Model: GSX160181F*/CA*F3636*6D+TXV+EEP				
Conditions: 80F/60F IWB @ 650 CFM				
Outdoor Temp F°	Total Btuh	Sensible Btuh	Latent Btuh	Total Watts
75°	18,900	13,986	4,914	1,360
80°	18,700	13,838	4,862	1,395
85°	18,500	13,690	4,810	1,430
90°	18,250	13,505	4,745	1,465
95°	18,000	13,320	4,680	1,500
100°	17,550	12,987	4,563	1,530
105°	17,100	12,654	4,446	1,560
110°	16,450	12,173	4,277	1,580
115°	15,800	11,692	4,108	1,600

Model: GSX160241F*/CA*F3636*6D+TXV+EEP				
Conditions: 80F/60F IWB @ 750 CFM				
Outdoor Temp F°	Total Btuh	Sensible Btuh	Latent Btuh	Total Watts
75°	24,800	18,600	6,200	1,770
80°	24,500	18,375	6,125	1,825
85°	24,200	18,150	6,050	1,880
90°	23,900	17,925	5,975	1,925
95°	23,600	17,700	5,900	1,970
100°	23,000	17,250	5,750	2,005
105°	22,400	16,800	5,600	2,040
110°	21,600	16,200	5,400	2,110
115°	20,800	15,600	5,200	2,180

Model: GSX160301F*/CA*F3743*6D+TXV+EEP				
Conditions: 80F/60F IWB @ 1000 CFM				
Outdoor Temp F°	Total Btuh	Sensible Btuh	Latent Btuh	Total Watts
75°	30,500	23,180	7,320	2,180
80°	30,100	22,876	7,224	2,240
85°	29,700	22,572	7,128	2,300
90°	29,350	22,306	7,044	2,360
95°	29,000	22,040	6,960	2,420
100°	28,300	21,508	6,792	2,465
105°	27,600	20,976	6,624	2,510
110°	26,550	20,178	6,372	2,550
115°	25,500	19,380	6,120	2,600

Model: GSX160361F*/CA*F4860*6D+TXV+EEP				
Conditions: 80F/60F IWB @ 1200 CFM				
Outdoor Temp F°	Total Btuh	Sensible Btuh	Latent Btuh	Total Watts
75°	36,500	28,105	8,395	2,610
80°	36,100	27,797	8,303	2,685
85°	35,700	27,489	8,211	2,760
90°	35,250	27,143	8,108	2,830
95°	34,800	26,796	8,004	2,900
100°	33,950	26,142	7,809	2,960
105°	33,100	25,487	7,613	3,020
110°	32,900	25,333	7,567	3,070
115°	32,700	25,179	7,521	3,120

PERFORMANCE DATA

GSX160[42-61]1F*

Model: GSX160421F*/CA*F4860*6D+TXV+EEP				
Conditions: 80F/60F IWB @ 1400 CFM				
Outdoor Temp F°	Total Btuh	Sensible Btuh	Latent Btuh	Total Watts
75°	44,100	33,516	10,584	3,150
80°	43,600	33,136	10,464	3,230
85°	43,100	32,756	10,344	3,340
90°	42,550	32,338	10,212	3,420
95°	42,000	31,920	10,080	3,500
100°	40,950	31,122	9,828	3,570
105°	39,900	30,324	9,576	3,640
110°	38,450	29,222	9,228	3,705
115°	37,000	28,120	8,880	3,760

Model: GSX160481F*/CA*F4961*6D+TXV+EEP				
Conditions: 80F/60F IWB @ 1500 CFM				
Outdoor Temp F°	Total Btuh	Sensible Btuh	Latent Btuh	Total Watts
75°	47,800	36,328	11,472	3,410
80°	47,200	35,872	11,328	3,510
85°	46,600	35,416	11,184	3,610
90°	46,050	34,998	11,052	3,690
95°	45,500	34,580	10,920	3,790
100°	44,350	33,706	10,644	3,865
105°	43,200	32,832	10,368	3,940
110°	41,600	31,616	9,984	4,005
115°	40,000	30,400	9,600	4,070

Model: GSX160601F*/CA*F4961*6D+TXV+EEP				
Conditions: 80F/60F IWB @ 1625 CFM				
Outdoor Temp F°	Total Btuh	Sensible Btuh	Latent Btuh	Total Watts
75°	56,700	43,092	13,608	3,880
80°	56,050	42,598	13,452	3,995
85°	55,400	42,104	13,296	4,110
90°	54,700	41,572	13,128	4,165
95°	54,000	41,040	12,960	4,320
100°	52,650	40,014	12,636	4,410
105°	51,300	38,988	12,312	4,500
110°	49,400	37,544	11,856	4,575
115°	47,500	36,100	11,400	4,650

Model: GSX160611F*/CA*F4961*6D+TXV+EEP				
Conditions: 80F/67F IWB @ 1550 CFM				
Outdoor Temp F°	Total Btuh	Sensible Btuh	Latent Btuh	Total Watts
75°	59,900	41,331	18,569	4,270
80°	59,150	40,814	18,337	4,410
85°	58,400	40,296	18,104	4,550
90°	57,700	39,813	17,887	4,650
95°	57,000	39,330	17,670	4,750
100°	55,600	38,364	17,236	4,875
105°	54,200	37,398	16,802	5,000
110°	52,200	36,018	16,182	5,090
115°	50,200	34,638	15,562	5,180

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:

- 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.
- 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 installation instructions.

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 **10 PSIG** of the **HI PR** shown.

A properly operating unit should be within plus or minus **5 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 measures at the liquid and suction service valve ports.

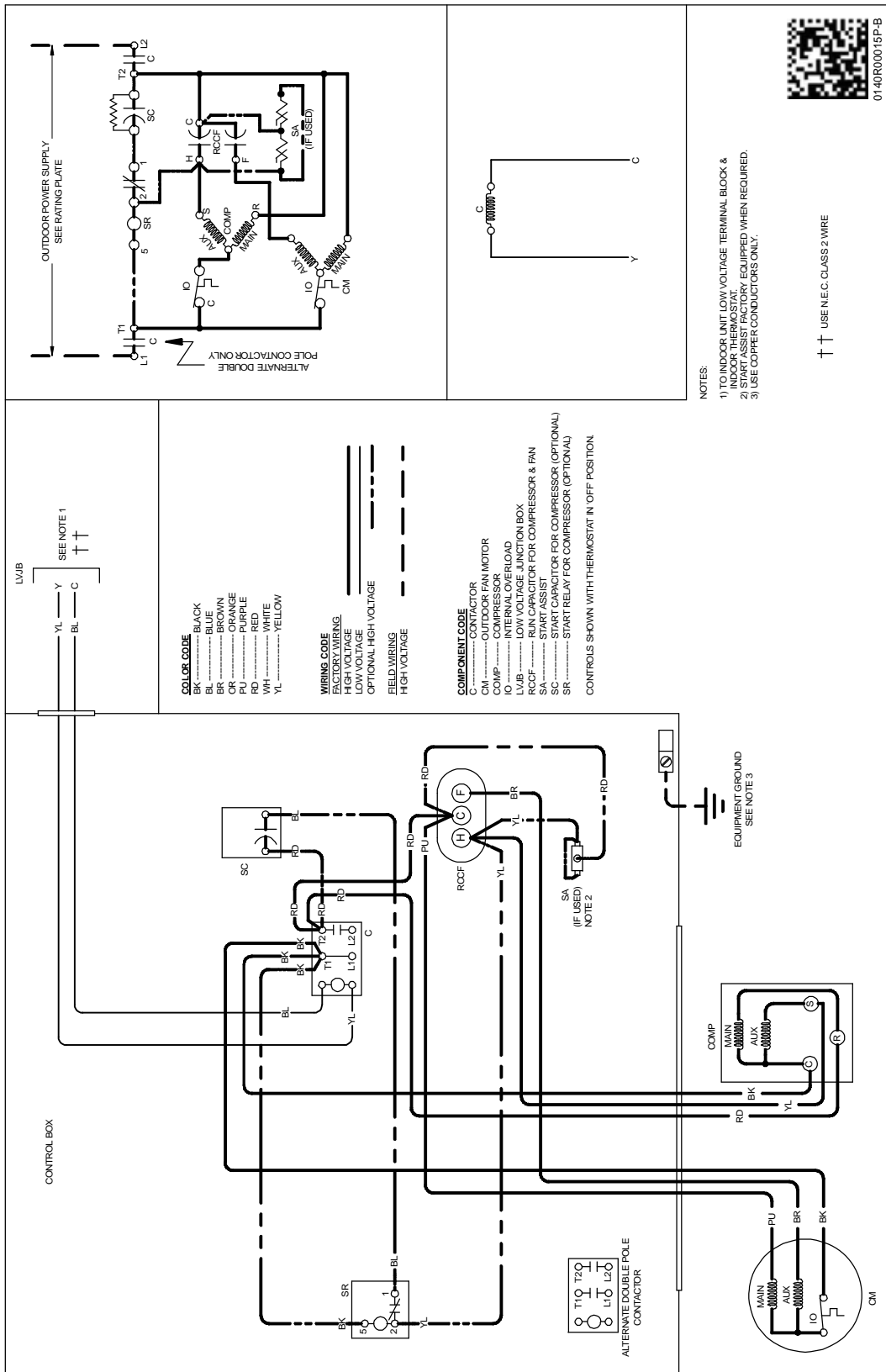
WIRING DIAGRAMS

GSX160[18-48]1F*



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.

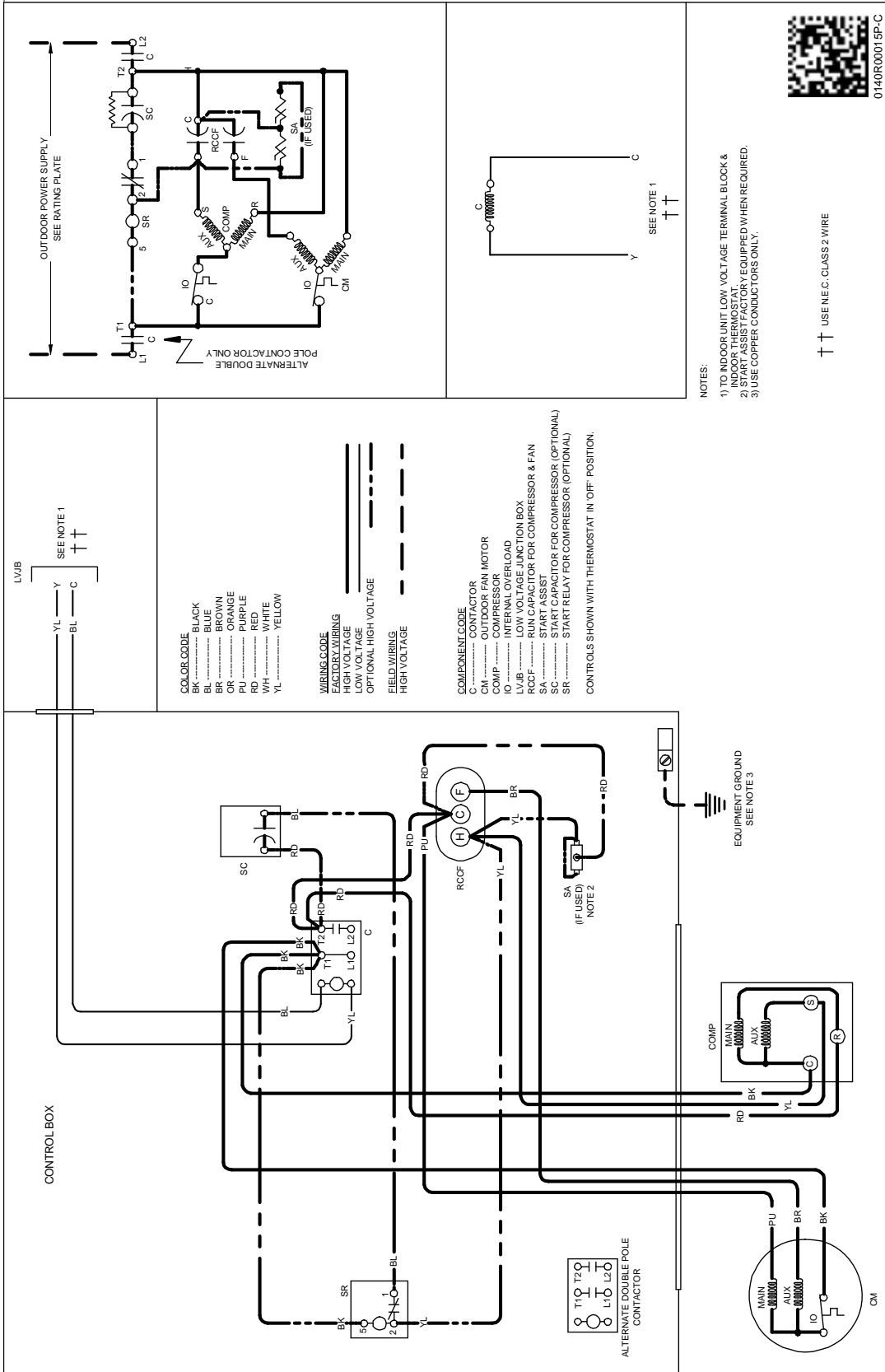


Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.



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.



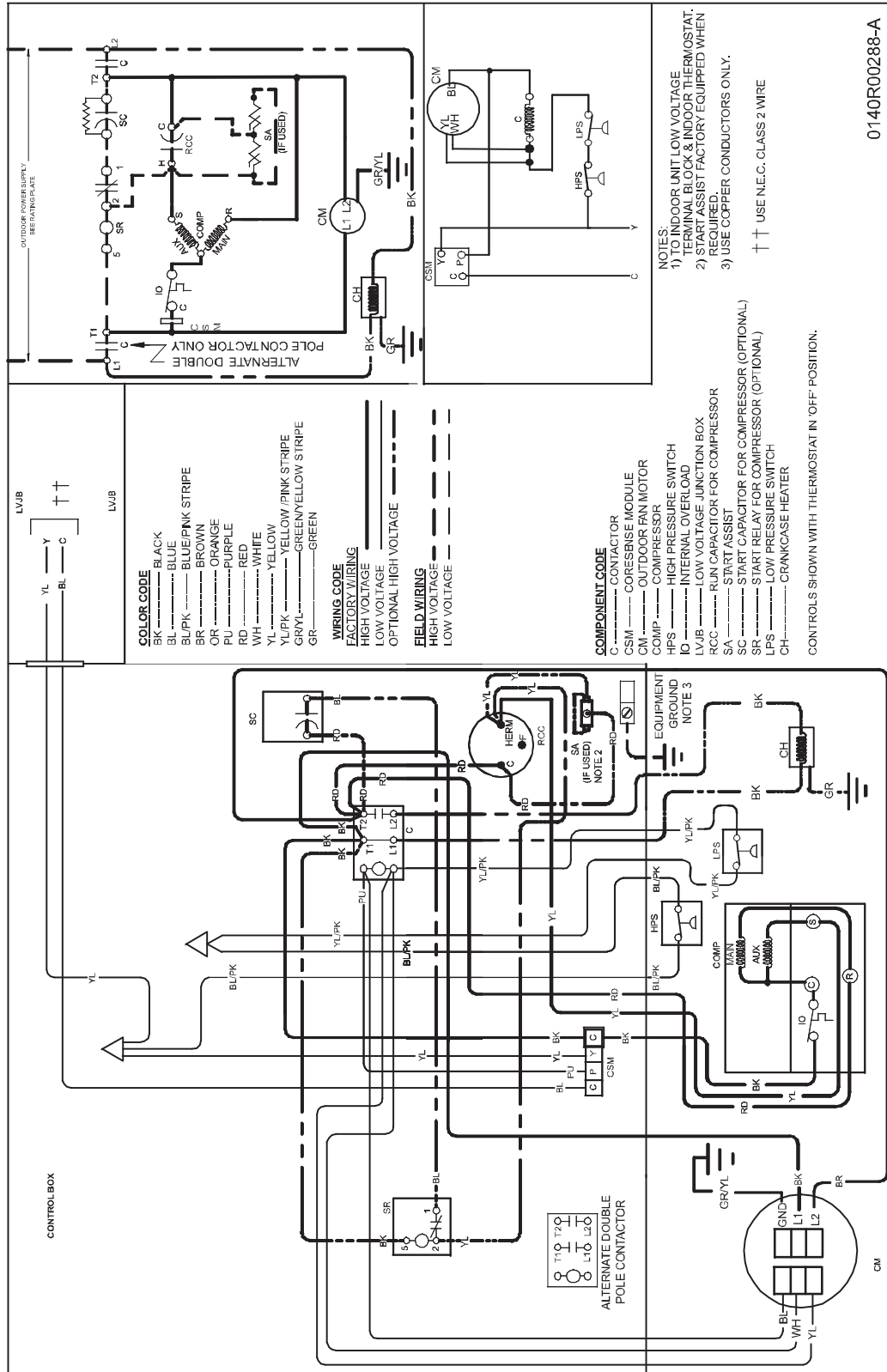
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WIRING DIAGRAMS

GSX160601F*

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.



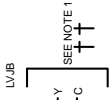
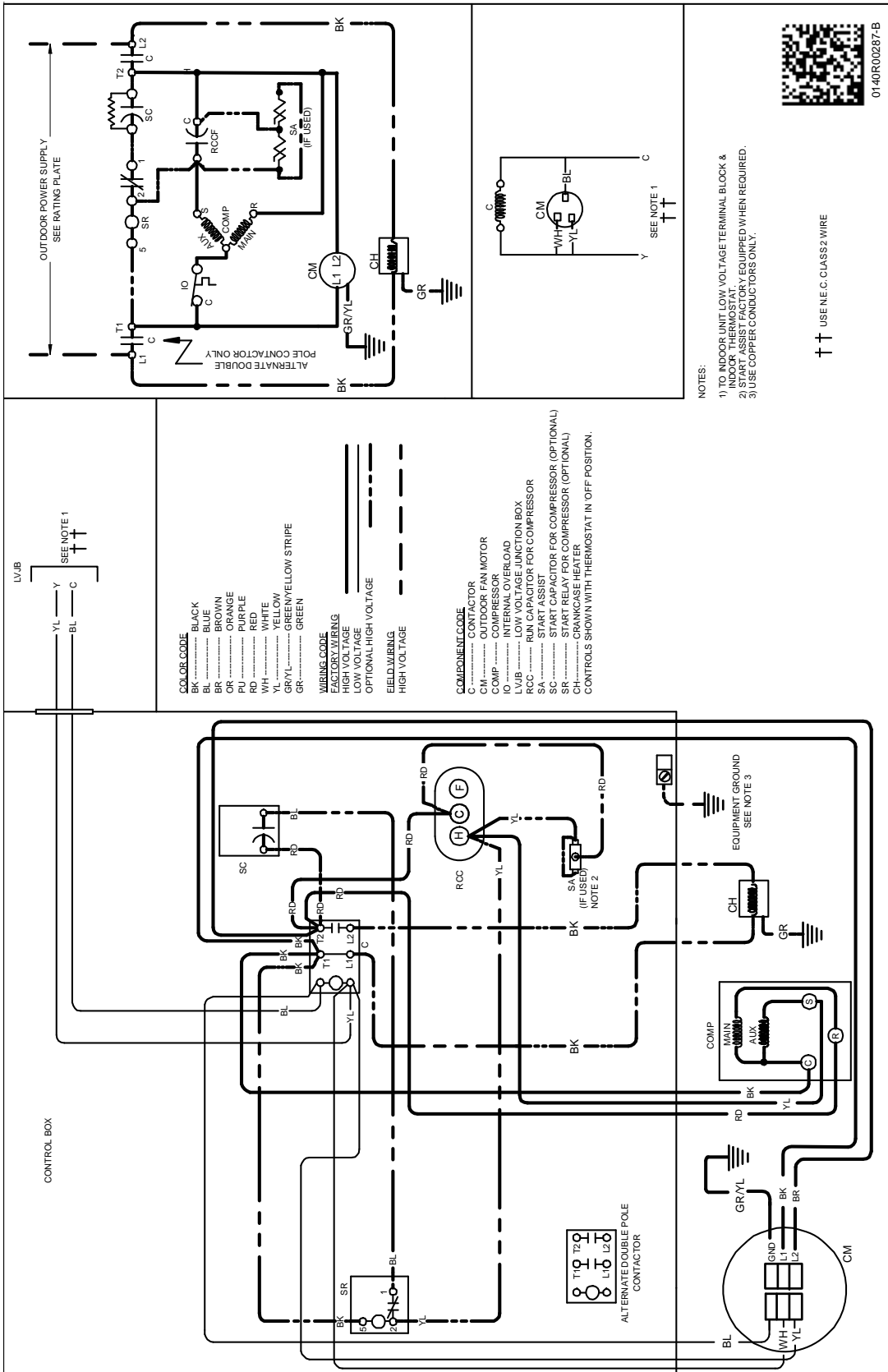
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Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.



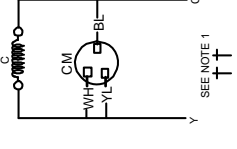
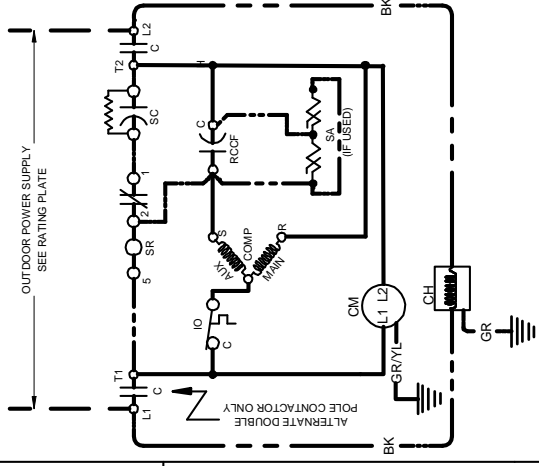
WARNING

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.



- COLOR CODE**
- BK BLACK
 - BL BLUE
 - BR BROWN
 - OR ORANGE
 - PU PURPLE
 - RD RED
 - WH WHITE
 - Y YELLOW
 - GR GREEN
 - GR/YL GREEN/YELLOW STRIPE
- WIRING CODE**
- FACTORY WIRING
 - HIGH VOLTAGE
 - LOW VOLTAGE
 - OPTIONAL HIGH VOLTAGE
 - FIELD WIRING
 - HIGH VOLTAGE

- COMPONENT CODE**
- C CONTACTOR
 - CM OUTDOOR FAN MOTOR
 - COMP COMPRESSOR
 - IO INTERNAL OVERLOAD
 - LVJB LOW VOLTAGE JUNCTION BOX
 - RCC RUN CAPACITOR FOR COMPRESSOR
 - SC START CAPACITOR FOR COMPRESSOR (OPTIONAL)
 - SA SAFETY SWITCH (OPTIONAL)
 - CH CHANGE HEATER (OPTIONAL)
 - CM COMPRESSOR (OPTIONAL)
- CONTROLS SHOWN WITH THERMOSTAT IN OFF POSITION.



NOTES:

- 1) TO INDOOR UNIT, LOW VOLTAGE TERMINAL BLOCK & INDOOR THERMOSTAT.
- 2) START ASSIST FACTORY EQUIPPED WHEN REQUIRED.
- 3) USE COPPER CONDUCTORS ONLY.



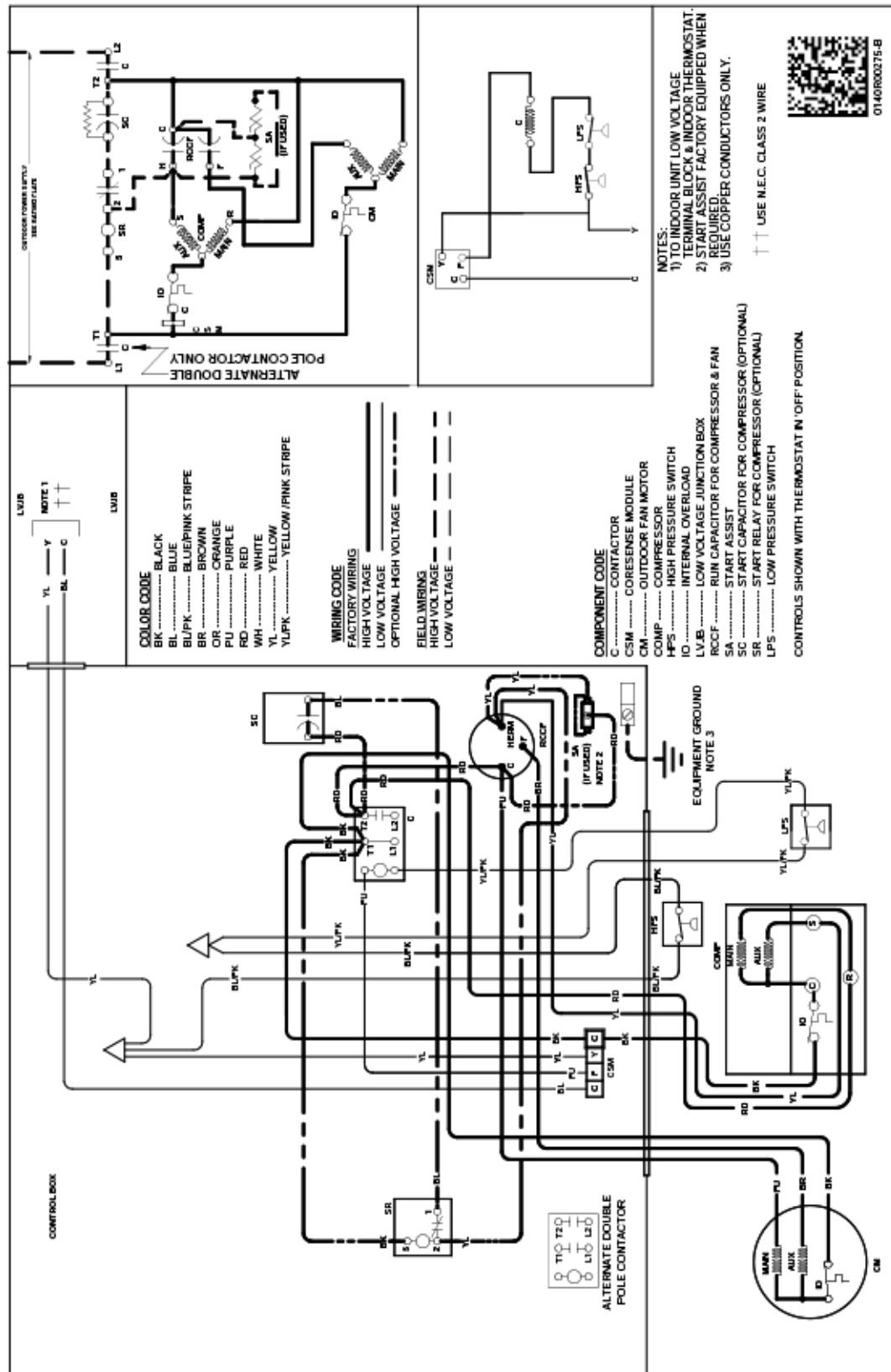
0140R00287-B

++ USE N.E.C. CLASS 2 WIRE

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.



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