

ADDENDEUM #1

Project Name:	TBTE Project No.:	Date Issued:
City of Dryden, HVAC Systems Supply and Installation	25-170	2026-02-10

The Request for Tender documents (T-2026-2) is hereby amended as follows:

ITEM	REFERENCE SPECIFICATION SECTION OR DRAWINGS	DESCRIPTION
1	00 21 13 Instructions to Bidders 1.1.1.1	<p>The following has been revised as follows:</p> <p><i>.1 Ensure offers are signed under seal, executed, and dated and are received by Owner located at 30 Van Horne Ave, Dryden, ON before 2:00 PM local time on the 11th day of February 2026.</i></p> <p>Now reads</p> <p><i>.1 Ensure offers are signed under seal, executed, and dated and are received by Owner located at 30 Van Horne Ave, Dryden, ON before 3:00 PM local time on the 18th day of February 2026.</i></p>
2	00 21 13 Instructions to Bidders 1.2.2	<p>The following has been revised as follows:</p> <p><i>.2 Perform Work within time stated in Section 01 11 00 Summary of Work. Completion of work is to be completed by August 30th, 2025.</i></p> <p>Now reads</p> <p><i>.2 Perform Work within time stated in Section 01 11 00 Summary of Work. Completion of work is to be completed by August 30th, 2026.</i></p>
3	Request for Equals	See attached submittal package for approved equipment equals.

4	Request for Information	<p>Inquiry: Is sufficient combustion air currently in the space to serve the new units?</p> <p>Response: Contractor shall provide combustion air and flue gas venting for each furnace.</p>
5	Request for Information	<p>Inquiry: What is the size of the mechanical shaft where the venting is being run?</p> <p>Response: Exact dimensions of the mechanical shaft are unknown. Contractors shall assume chase is sufficiently sized for all venting and refrigerant lines.</p>
6	Request for Information	<p>Inquiry: Can the closing be extended until Friday, February 13th?</p> <p>Response: Tender period has been extended. Refer to Item 1 of this Addendum for new closing date.</p>

Enclosed/Reference Material:

- 1. Master Group RFE submittal.**

END OF DOCUMENT

REQUEST FOR APPROVAL

To: TBT Engineering Consulting Group

From: Mohammed Asif

Attn: A.J. Brookes

Pages: 72 (inc. cover)

Date: 23 Jan 2026

Re: Dryden City Hall & Public Library HVAC

☐ Urgent

☐ For Review

☐ Please Comment

☒ Please Reply

Comments

Please review the following request for approval on our equipment(s) to use as **equals** on this project.

Specified Tag	Base of Design	Base Model	Our Equal	Equal Base Model
F-1,F-2,F-3,F-5,F-6	Carrier	59T	York	Y92
F-4		59T		Y91
CU-1,CU-2,CU-3, CU-4,CU-5,CU-6		26TP		YC6
H-1	Neptronic	SKE4	Carel	UE010XW0U1
H-2				UE015XW0U1

Thank you,

Mohammed Asif

Mohammed Asif
Outside Sales Representative
The Master Group



Mohammed Asif
Outside Sales Representative – Business Solutions

The Master Group
80 National St. Unit-B
Garson, ON P3L 1M5
T 705-897-1942 #59202
C 807-355-3637
TF 1-800-363-3384

marangdal@master.ca

SHOP DRAWING/ SUBMITTAL REVIEW

☒ CONFORMS W/ REQUIREMENTS

☐ CONFORMS W/ CHANGES NOTED

☐ REVISE AND RESUBMIT

☐ REJECTED

This review is for general conformance with drawings and specifications only. Approval is subject to the contractor's performance within the confines of the contract documents. Review of the submittals, including dimensions and equipment specifications, will not serve to relieve the contractor of contractual responsibility for any deviation from the contract requirements.

By: *D. Kennedy*

Date: 2026-01-29

TBT Engineering, Kenora Branch
815 Ottawa St, Kenora, ON P0X 1C0

Date

01/23/2026

Project Name

Dryden City Hall & Public Library

Project Number**Client / Purchaser**

Tag: F-1,F-2,F-3,F-4,F-5,F-6
 Tag: CU-1,CU-2,CU-3,CU-4,CU-5,CU-6



Submittal Summary Page

Qty	Tag #	Model # / Material #	Description
3	CU-1,CU-2,CU-5	YC636E2S11	York Brand, Air Conditioner, 16+ SEER2, Two Stage, 3.0 Tons, R-454B Refrigerant, 208/230-1-60, Standard (Conventional) Controls
3	CU-1,CU-2,CU-5	S1-2LA06700424	Standard Low Ambient Control Kit
3	F-1,F-2,F-5	Y92E080C16SMPS1	York Brand, Condensing Furnace, Two Stage, Standard ECM Motor, 80,000 BTU Input, 21 " Width, 1600 CFM, Standard NOx, Multiposition, Standard Controls
3	F-1,F-2,F-5	CTM36C5ADS1	York Brand, A-Coil, Full Cased Multi Position, 3.0 Tons, R454B Refrigerant, 21.0" Cabinet Width, TXV, Slab-3R-20-14, (RDS) A2L Sensor Factory Installed
1	CU-3	YC636E2S11	York Brand, Air Conditioner, 16+ SEER2, Two Stage, 3.0 Tons, R-454B Refrigerant, 208/230-1-60, Standard (Conventional) Controls
1	CU-3	S1-2LA06700424	Standard Low Ambient Control Kit
1	F-3	Y92E100C16SMPS1	York Brand, Condensing Furnace, Two Stage, Standard ECM Motor, 100,000 BTU Input, 21 " Width, 1600 CFM, Standard NOx, Multiposition, Standard Controls
1	F-3	CTM36C5ADS1	York Brand, A-Coil, Full Cased Multi Position, 3.0 Tons, R454B Refrigerant, 21.0" Cabinet Width, TXV, Slab-3R-20-14, (RDS) A2L Sensor Factory Installed
2	CU-4	YC624E2S11	York Brand, Air Conditioner, 16+ SEER2, Two Stage, 2.0 Tons, R-454B Refrigerant, 208/230-1-60, Standard (Conventional) Controls
2	CU-4	S1-2LA06700424	Standard Low Ambient Control Kit
2	F-4	Y91E080B12SMPS1	York Brand, Condensing Furnace, Single Stage, Standard ECM Motor, 80,000 BTU Input, 17.5 " Width, 1200 CFM, Standard NOx, Multiposition, Standard Controls
2	F-4	CTM24B5ABS1	York Brand, A-Coil, Full Cased Multi Position, 2.0 Tons, R454B Refrigerant, 17.5" Cabinet Width, TXV, Slab-2R-16-18, (RDS) A2L Sensor Factory Installed
1	CU-6	YC636E2S11	York Brand, Air Conditioner, 16+ SEER2, Two Stage, 3.0 Tons, R-454B Refrigerant, 208/230-1-60, Standard (Conventional) Controls
1	CU-6	S1-2LA06700424	Standard Low Ambient Control Kit
1	F-6	Y92E100C20SMPS1	York Brand, Condensing Furnace, Two Stage, Standard ECM Motor, 100,000 BTU Input, 21 " Width, 2000 CFM, Standard NOx, Multiposition, Standard Controls
1	F-6	CTM36C5ADS1	York Brand, A-Coil, Full Cased Multi Position, 3.0 Tons, R454B Refrigerant, 21.0" Cabinet Width, TXV, Slab-3R-20-14, (RDS) A2L Sensor Factory Installed



Residential Split

Split-System Outdoor

Project Name: **Dryden City Hall & Public Library**Unit Model #: **YC636E2S11**Quantity: **3** Tag #: **CU-1,CU-2,CU-5**System: **YC636E2S11,Y92E080C16SMPS1,CTM36C5ADS1**

Cooling Performance

Total net capacity	36.2 MBH
Sensible net capacity	26.6 MBH
Seasonal Efficiency (at ARI)	16.00 SEER2
Efficiency (at ARI)	12.50 EER2
Ambient DB temp.	95.0 °F
Power input	3.00 kW

Hangtag Ratings

Hangtag Cooling	14.75 SEER2
-----------------	-------------

Refrigerant

Refrigerant type	R-454B
Data plate charge with 15' lineset	3 lb 8 oz
Additional charge for Indoor Coil	12 oz

Electrical Data

Power supply	208/230-1-60
Unit min circuit ampacity	19.2 A
Unit max over-current protection	30 A

Outdoor Unit Shipping Dimensions & Weight

Hgt	40 in	Len	36 in	Wth	40 in
Weight with factory installed options	235 lb				

Matchup Information

AHRI Reference Number	216600625
AHRI Rated Capacity	36.2 MBH
AHRI Rated Efficiency	16 SEER2
CEE	N/A
Energy Star	Yes

Note: Please refer to the tech guide for actual unit dimensions

Note: Please refer to the tech guide for listed maximum static pressures



3 Ton

Product Features

- The YC6 LX Series is our new DOE 2023 compliant 16+ SEER2 split system air conditioner lineup. Optimized for tax credit and utility rebate efficiency levels using R454B refrigerant, these outdoor units are specifically designed to be matched with York indoor coils, furnaces, and air handlers to provide a complete system solution.

Unit Features

- High System Efficiency - Optimized system designs provide ENERGY STAR ratings in all tonnages. Targeted furnace and air handler matches meeting Federal Tax Credit efficiencies are available for all tonnages and markets.
- 2 Ton thru 5 Ton feature 2-stage compressors
- Easier Installation- Independent panels provide quick access for unit setup. Installation time is reduced by easy power and control wiring access. Matched with indoor TXV for optimal size and performance. The filter-drier is loose shipped for field installation and factory charged for a 15-Ft line set means less time spent brazing and charging the system. The small base dimension and reduced unit clearances make for easier retrofits.
- Accessible Information - QR code on unit provides quick access to technical documents and warranty information.
- Durable Finish - The coated steel wire fan guard, coated external fasteners, and pre-treated G90-equivalent galvanized steel chassis components resist corrosion and rust creep. Powdercoat paint further protects external panels.
- Quality Coils - The high efficiency microchannel aluminum coil is manufactured using an improved material system providing reliable performance and small unit size.
- Rugged Coil Protection - Coils are protected from mechanical damage by a proven stamped steel coil guard design.
- Protected Compressor - Compressors are protected internally by a high pressure relief valve and a temperature sensor, and externally by the system high and low pressure switches.
- Reliable Operation - Ball bearing fan motors provide superior performance in extreme temperatures.
- Environmentally Friendly - CFC-free LGWP R-454B refrigerant delivers environmentally friendly performance with zero ozone depletion.
- Low Operating Sound Levels - Developed using CFD and FEA tools, the sturdy cabinet and top design provides sound performance of 76 dBA or lower. Compatible accessories for further sound reduction are also available.
- Low Operating Sound Levels - Specific sound and vibration development tests provide a design sound performance of 74 dBA or lower. Swept-wing fan blades are featured on units 2.5-Tons and higher. Compatible accessories for further sound reduction are also available.

Warranty

- Standard 5-Years parts
- 10 Years compressor limited warranty
- Extended 10 Years parts limited warranty with registration



Residential Split

Split-System Outdoor

Project Name: **Dryden City Hall & Public Library**Unit Model #: **YC636E2S11**Quantity: **3** Tag #: **CU-1,CU-2,CU-5**System: **YC636E2S11,Y92E080C16SMPS1,CTM36C5ADS1**

Factory Installed Options

YC636E2S11

Equipment Options	Option(s) Selected	
Brand :	Y	York Brand
Unit Type :	C	Air Conditioner
Efficiency :	6	16+ SEER2
Capacity :	36	3.0 Tons
Refrigerant :	E	R-454B Refrigerant
Voltage :	2	208/230-1-60
Controls :	S	Standard (Conventional) Controls
Factory-Installed Options :	1	
Generation :	1	

Field Installed Accessories

- ☐ S1-01007645000 - Compressor Sound Blanket - Small Scroll (1.6 lbs)
- ☐ S1-02547272000 - Compressor Crankcase Heater - Bellyband - Scroll 240V 40W (0.3 lbs)
- ☐ S1-1HK0601 - Anchor Bracket Kit (1.4 lbs)
- ☒ S1-2LA06700424 - Standard Low Ambient Control Kit (0.8 lbs)
- ☐ S1-2PS06700524 - Low Pressure Switch Kit (0.2 lbs)
- ☐ S1-2SA06710106 - Compressor Start Assist Kit (1.3 lbs)
- ☐ S1-ADDWIRE - Add-a-Wire allows 5-wire thermostats to use only 4 wires. (0.3 lbs)
- ☐ S1-CCVREC33 - Winter Cover Kit, 35" x 32" x 33" Height (6.0 lbs)
- ☐ S1-CTS DTS - CTS Wired Temperature Sensor for thermostat | Duct *Also works for LX Series (0.3 lbs)
- ☐ S1-CTS HTS - CTS Hardwired Temperature Sensor for CTS Thermostats *Works with LX series as well (0.2 lbs)
- ☐ S1-CTS PLATE - Wall Plate for CTS Thermostats *Also works for new platform LX series models below (0.0 lbs)
- ☐ S1-CTSWFTS - CTS Temperature Sensor with WiFi for CTS Thermostats *Also works with LX Series (0.1 lbs)
- ☐ S1-LX LOCK - Locking Ring For LX-Series Thermostats (0.4 lbs)
- ☐ S1-LX PLATE - Wall Plate For LX-Series Thermostats (0.0 lbs)
- ☐ S1-LX WFM - For LX Series Thermostats - WiFi Communication (0.1 lbs)
- ☐ S1-THEC11NY - York Branded THE Value Series | 2.3" Display | 1 Stage Heating | 1 Stage Cooling | Non-Programmable | Hardwire/Battery Powered (0.7 lbs)
- ☐ S1-THEC11P5Y - York Branded THE Value Series | 2.3" Display | 1 Stage Heating | 1 Stage Cooling | 7-Day (5+2) Programmable | Hardwire/Battery Powered (0.6 lbs)
- ☐ S1-THE PLATE - Wall Plate for THE Thermostats (0.1 lbs)
- ☐ S1-THPU432-Y - York Branded CTS Series | 3/4 Stage Heating | 2 Stage Cooling | 7-day/5+2 Programmable | WiFi On-board | Dual Fuel (0.7 lbs)
- ☐ S1-THPU433-Y - York Branded CTS Series | 3/4 Stage Heating | 2 Stage Cooling | 7 Day (5+2) Programmable | Wifi | Dual Fuel (1.2 lbs)
- ☐ S1-THSU231-Y - York Branded LX Series | 2.3" Display | 2 Stage Heating | 2 Stage Cooling | 7-day Programmable | WiFi On-Board (0.2 lbs)
- ☐ S1-THSU301-Y - York Branded LX Series | 3" Display | 2 Stage Heating | 1 Stage Cooling | (5+2) 7-day Programmable (1.0 lbs)
- ☐ S1-THSU302-Y - York Branded LX Series | 3" Display | 3/4 Stage Heating | 2 Stage Cooling | (5+2) 7-day Programmable (1.0 lbs)
- ☐ S1-THSU303-Y - York Branded LX Series | 3" Display | 3/4 Stage Heating | 2 Stage Cooling | (5+2) 7-day Programmable | Humidity On-Board (0.6 lbs)
- ☐ S1-THXU430W - Wi-Fi Communicating Touchscreen Thermostat with Proprietary Hexagon Interface (White), with 4.3" display screen (0.9 lbs)

Project Name: **Dryden City Hall & Public Library**

Tag: CU-1, CU-2, CU-5 (cont'd)

Unit Model #: **YC636E2S11**

Quantity: 3 Tag #: CU-1, CU-2, CU-5

YC6 Physical and Electrical

Physical and electrical data

Model	YC618E2S11	YC624E2S11	YC636E2S11	YC648E2S11	YC660E2S11
Unit supply voltage	208-230 V, 1 ϕ , 60 Hz				
Normal voltage range ¹	187 to 252				
Minimum circuit ampacity	9.3	13.6	19.2	27.3	31.6
Maximum overcurrent device (A) ²	15	20	30	45	50
Minimum overcurrent device (A) ³	15	15	20	30	35
Compressor	Type ⁴	1-stage rotary	2-stage scroll	2-stage scroll	2-stage scroll
	Rated load (A)	6.7	10.3	14.5	20.1
	Locked rotor (A)	33	62	76	141
Crankcase heater	No	No	No	No	No
Factory external discharge muffler	No	No	No	No	No
Hard start kit required with TXV ⁵	No	No	No	No	No
Hard start kit part number (S1-2SA067****)	22006	10106	10106	10106	10106
Fan diameter (in.)	22	22	26	26	26
Fan motor	Type	ECM	ECM	ECM	ECM
	Rated HP	1/3	1/3	1/3	1/3
	Rated load (A)	2.0	2.0	1.4	2.0
	Nominal RPM	917	917	682	917
	Nominal CFM	2575	2575	3500	4275
Coil	Face area (sq ft)	17.31	13.79	23.33	25.88
	Rows deep	1	1	1	1
	Fins per inch	23	23	23	23
Liquid refrigerant piping outdoor (field-installed)	3/8	3/8	3/8	3/8	3/8
Vapor refrigerant piping outdoor (field-installed) ⁶	3/4	3/4	3/4	7/8	1 1/8 \ddagger
Unit charge (lb - oz) ⁷	3-10	3-0	3-8	4-11	5-8
Charge (oz/ft)	0.57	0.57	0.57	0.60	0.67
Operating weight (lb)	165	150	235	250	255

1. Rated in accordance with AHRI Standard 110-2012, utilization range A.

2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.

3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.

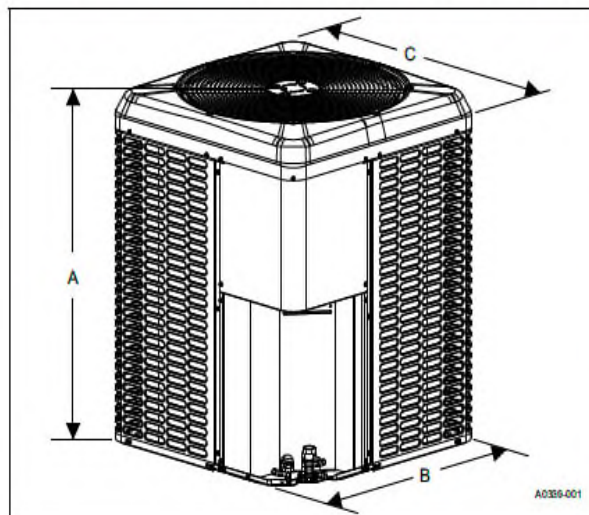
4. Rotary compressor models are limited to an equivalent length of refrigerant piping of 75 ft with no exceptions.

5. Refer to the *Hard Start Kit Accessory Installation Manual* for the hard start kit part number for each model. The hard start kit is a field-installed accessory.

6. For applications with non-standard vapor line sizes, refer to the *Applications and accessories* section in the *Technical Guide*.

7. The unit charge is correct for the outdoor unit, smallest matched indoor unit, and 15 ft of refrigerant tubing. For tubing lengths other than 15 ft, add or subtract the amount of refrigerant, using the difference in actual refrigerant piping length (not the equivalent length) multiplied by the per foot value.

\ddagger The adapter fitting must be field-installed for the required 1 1/8 in. refrigerant piping.



Dimensions

Unit model	Dimensions (in.)			Refrigerant connection service valve size (in.)	
	A	B	C	Liquid	Vapor
YC618E2S11	36 1/4	29 1/4	29 1/4	3/8	3/4
YC624E2S11	30	29 1/4	29 1/4		
YC636E2S11	36 1/4	38	34 1/4		7/8
YC648E2S11	39 1/2	38	34 1/4		
YC660E2S11	42 3/4	38	34 1/4		

Notes:

\ddagger Adapter fitting must be field installed for the required 1 1/8 in. refrigerant piping.

All dimensions are in inches and are subject to change without notice.

Overall height is from the bottom of the base pan to the top of the fan guard.

Overall length and width include screw heads.



Residential Split

Split-System Indoor

Project Name: **Dryden City Hall & Public Library**Unit Model #: **Y92E080C16SMPS1**Quantity: **3** Tag #: **F-1,F-2,F-5**System: **YC636E2S11,Y92E080C16SMPS1,CTM36C5ADS1**

Cooling Performance

Total net capacity	36.2 MBH
Sensible net capacity	26.6 MBH
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Unit Leaving DB temp.	60.3 °F
Unit Leaving WB temp.	57.9 °F
Leaving air temp dew point	56.4 °F

Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	77.0 MBH
Supply air	1250 cfm
Heating input capacity (Max)	80 MBH
Leaving DB temp.	117.0 °F
Air temp. rise	57.0 °F
AFUE	97.0 %

Supply Air Blower Performance

Supply air	1250 cfm
Ext. static pressure	0.3 IWG
Blower speed description	MEDIUM
Return Configuration	Upflow
Motor rating	0.75 HP
Elevation	0 ft
Drive type	DIRECT

Indoor Electrical Data

Power supply	115-1-60
Unit min circuit ampacity	10.80 A
Unit max over-current protection	20 A

Indoor Unit Shipping Dimensions & Weight

Hgt	36 in	Len	32 in	Wth	23 in
Weight with factory installed options	136 lb				

Matchup Information

AHRI Reference Number	216600625
AHRI Rated Capacity	36.2 MBH
AHRI Rated Efficiency	16 SEER2
CEE	N/A
Energy Star	Yes

Note: Please refer to the tech guide for actual unit dimensions

Note: Please refer to the tech guide for listed maximum static pressures



Product Features

Unit Features

- Two-stage heating operation includes a two-stage gas valve, two-stage inducer operation, and standard ECM blower operation. Auto-staging allows two-stage operation with a single-stage thermostat.
- Easily applied in upflow, horizontal left or right, or downflow installation with minimal conversion necessary
- Standard NOx
- Compact, easy to install, ideal height 33 in. tall cabinet
- Secondary heat exchanger made of corrosion resistant stainless steel materials.
- Patent pending self priming internal condensate trap design for easy installation.
- Built-in, high level self diagnostics with fault code displays standard on integrated control module for reliable operation
- All models are convertible to use propane (LP) gas.
- 100% shut-off main gas valve for extra safety
- Hi-tech tubular aluminized steel primary heat exchanger
- Airflow leakage less than 1% of nominal airflow for duct performance testing conditions
- 5 speed, direct drive Standard ECM style high efficiency DC motor.
- Quiet inducer operation and inducer rotates for easy conversion of venting options.
- High-efficiency blower motor for lower electrical power usage and improved AC SEER ratings
- Insulated blower compartment for thermal and acoustic performance

Warranty

- 20-year limited warranty on the heat exchanger.
- 10-year heat exchanger warranty on non-residential applications.
- 5-year limited parts warranty.
- Extended residential limited lifetime heat exchanger and 10-year limited parts warranty when product is registered online within 90 days of purchase for replacement or within 90 days of closing for new home construction.



Residential Split

Split-System Indoor

Project Name: **Dryden City Hall & Public Library**Unit Model #: **Y92E080C16SMPS1**Quantity: **3** Tag #: **F-1,F-2,F-5**System: **YC636E2S11,Y92E080C16SMPS1,CTM36C5ADS1**

Factory Installed Options

Y92E080C16SMPS1

Equipment Options	Option(s) Selected	
Brand :	Y	York Brand
Type :	9	Condensing Furnace
Stage :	2	Two Stage
Motor Control Options :	E	Standard ECM Motor
Heat Size :	080	80,000 BTU Input
Cabinet Width :	C	21 " Width
Airflow :	16	1600 CFM
Heat Type :	S	Standard NOx
Configuration :	MP	Multiposition
Controls :	S	Standard Controls
Generation :	1	

Field Installed Accessories

- | | |
|--|--|
| <ul style="list-style-type: none"> <input type="radio"/> S1-1BR0521 - Bottom Return Filter Rack Galvanized (Fits 21" wide furnace) (10.0 lbs) <input type="radio"/> S1-1BR0621 - Bottom Return Filter Rack (1" – 4") Pre-Painted To Match Furnace (Filters are NOT included with the kit) (20.0 lbs) <input type="radio"/> S1-1CB0521 - Combustible Floor Base (For Downflow Applications) (7.8 lbs) <input type="radio"/> S1-1CT0302 - Concentric Vent Termination Kit – 2" (5.5 lbs) <input type="radio"/> S1-1CT0302-636 - Concentric Vent Termination Kit – 2" (Canada) (6.0 lbs) <input type="radio"/> S1-1CT0303 - Concentric Vent Termination Kit - 3" (9.0 lbs) <input type="radio"/> S1-1CT0303-636 - Concentric Vent Termination Kit - 3" (Canada) (9.0 lbs) <input type="radio"/> S1-1HT0901 - Sidewall Vent Termination Kit – 3" (1.5 lbs) <input type="radio"/> S1-1HT0902 - Sidewall Vent Termination Kit – 2" (2.0 lbs) <input type="radio"/> S1-1NK0301 - Condensate Neutralizer Kit (3.0 lbs) <input type="radio"/> S1-1NP0347 - Propane (LP) Conversion Kit (0.6 lbs) | <ul style="list-style-type: none"> <input type="radio"/> S1-1NP0820 - Propane (LP) Conversion Kit - includes stainless steel LP Burners (3.0 lbs) <input type="radio"/> S1-1PS3315 - High Altitude Kit - For altitudes above 5000 feet (1.0 lbs) <input type="radio"/> S1-1SR0402 - Side Return Filter Rack 16x25x2 Contains 1" Aluminum Mesh Filter (RNC or AOR) (4.5 lbs) <input type="radio"/> S1-2HU16700124 - Humidistat (5.0 lbs) <input type="radio"/> S1-32924441000 - Natural (NAT) Gas Stainless Steel Burner Kit (3.0 lbs) <input type="radio"/> S1-32926889000 - LP Stainless Steel Burner Kit (2.6 lbs) <input type="radio"/> S1-37348991001 - Internal Vent Kit (1.0 lbs) |
|--|--|

Project Name: **Dryden City Hall & Public Library**

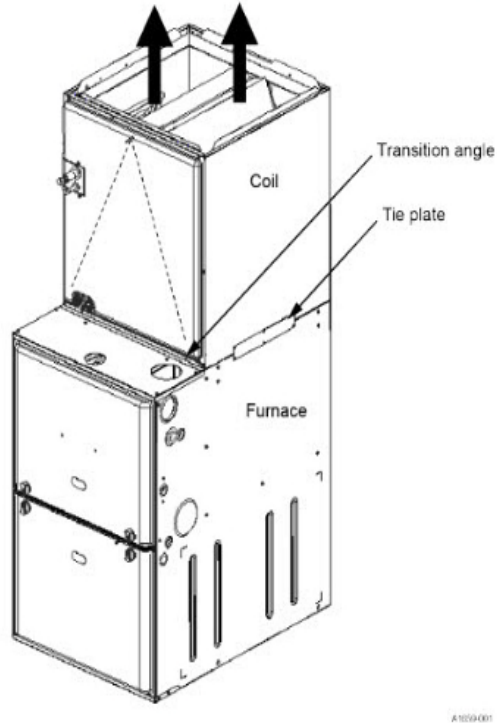
Tag: F-1,F-2,F-5 (cont'd)

Unit Model #: **Y92E080C16SMPS1**

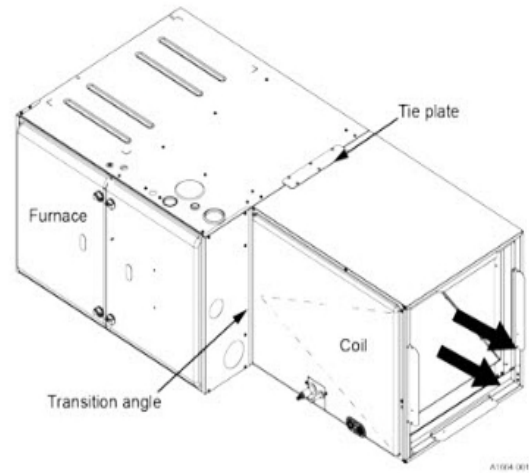
Quantity: 3 Tag #: F-1,F-2,F-5

Application

Figure 5: Vertical upflow applications with furnaces



Horizontal right application with furnace



Horizontal left application with furnace

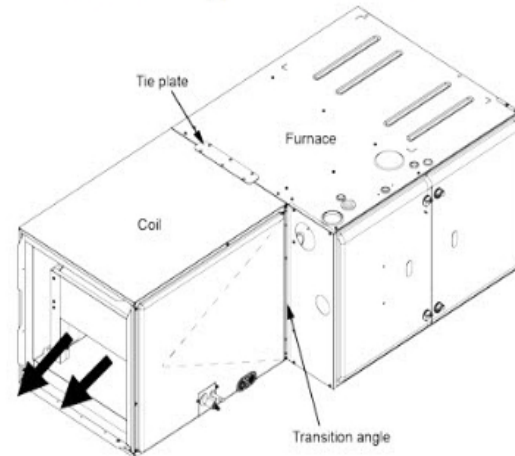
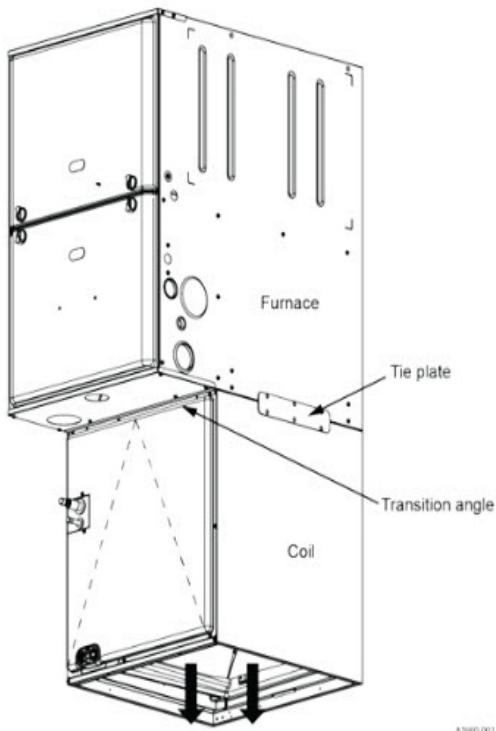


Figure 6: Vertical downflow applications with furnaces



Project Name: **Dryden City Hall & Public Library**

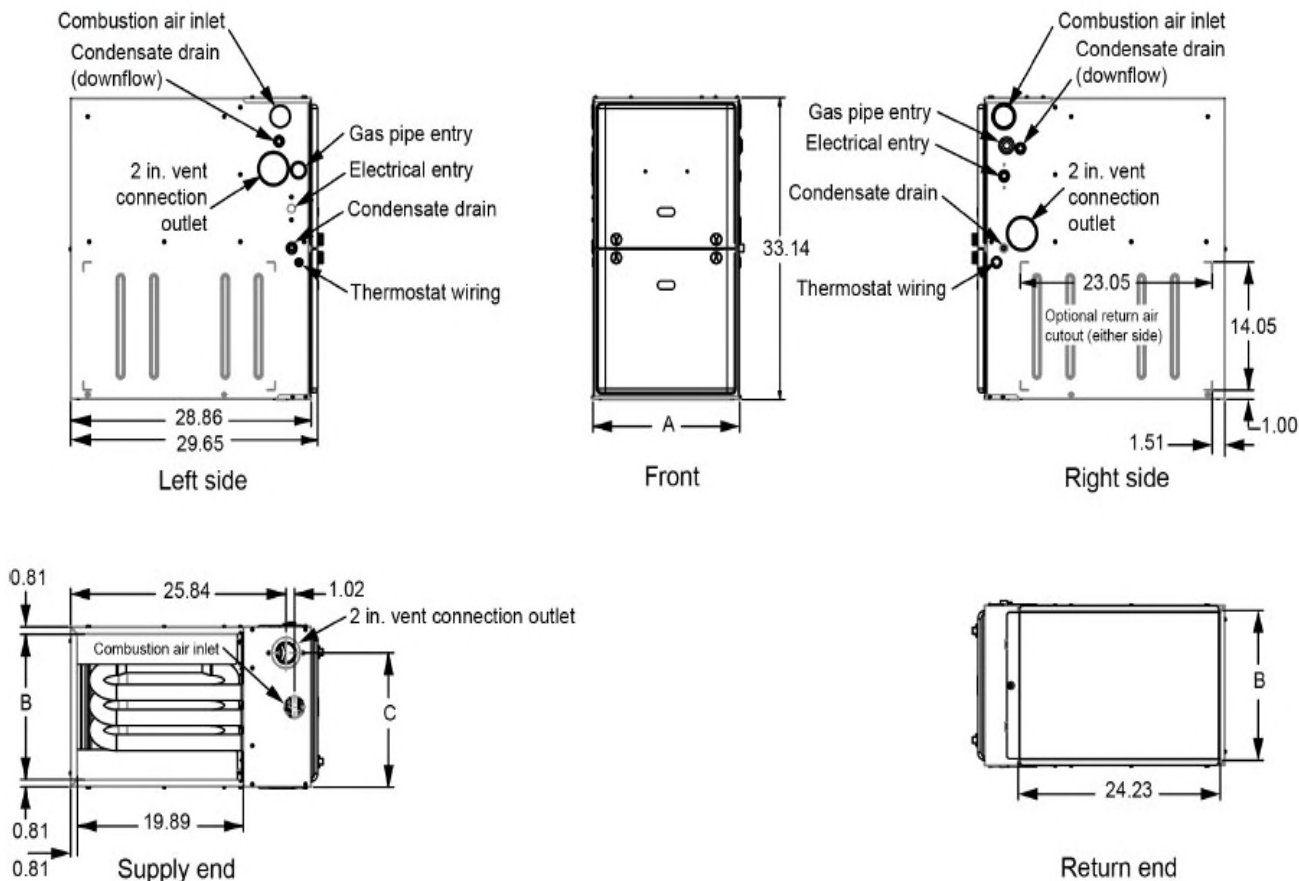
Tag: F-1,F-2,F-5 (cont'd)

Unit Model #: **Y92E080C16SMPS1**

Quantity: 3 Tag #: F-1,F-2,F-5

Y92E Dimensions

Figure 1: Dimensions



Note: All measurements are in inches.

Table 1: Cabinet and duct dimensions

Model	Cabinet size	A		B		C		Approximate operating weight	
		in.	cm	in.	cm	in.	cm	lb	kg
Y92E040A10SMPS1	A	14.5	36.8	13.4	34	11.7	29.7	106	48
Y92E060B12SMPS1	B	17.5	44.4	16.4	41.6	14.7	37.4	112	51
Y92E080B12SMPS1	B	17.5	44.4	16.4	41.6	14.7	37.4	117	53
Y92E080C16SMPS1	C	21	53.3	19.8	50.5	18.2	46.2	127	58
Y92E100C16SMPS1	C	21	53.3	19.8	50.5	18.2	46.2	131	59
Y92E100C20SMPS1	C	21	53.3	19.8	50.5	18.2	46.2	138	63
Y92E120D20SMPS1	D	24.5	62.2	23.4	59.4	21.7	55.1	147	67



Residential Split

Split-System Coil

Project Name: **Dryden City Hall & Public Library**Unit Model #: **CTM36C5ADS1**Quantity: **3** Tag #: **F-1,F-2,F-5**System: **YC636E2S11,Y92E080C16SMPS1,CTM36C5ADS1**

Cooling Performance

Total gross capacity	36.2 MBH
Sensible gross capacity	26.6 MBH
Ambient DB temp.	95.0 °F

Refrigerant

Refrigerant type	R-454B
Data plate charge with 15' lineset	3 lb 8 oz
Additional charge for Indoor Coil	12 oz

Coil Shipping Dimensions & Weight

Hgt	27 in	Len	22 in	Wth	21 in
Weight with factory installed options	59 lb				

Matchup Information

AHRI Reference Number	216600625
AHRI Rated Capacity	36.2 MBH
AHRI Rated Efficiency	16 SEER2
CEE	N/A
Energy Star	Yes

Note: Please refer to the tech guide for actual unit dimensions

Note: Please refer to the tech guide for listed maximum static pressures



Product Features

- MaxAlloy™ Coil - Long life aluminum coils built to deliver lasting performance, efficiency and reliability.

Unit Features

- CTM series full-cased coils are suitable for upflow, downflow and horizontal applications.
- (RDS) A2L Sensor Factory Installed
- Even-flow - New distributor design for improved and balanced refrigerant flow and even coil circuit performance.
- Powder-painted - G30 galvanized steel case provides a coated edge that resists corrosion and rust creep.
- Quality Construction - Structural components are made of Aluminum or G90 galvanized steel to prevent corrosion.
- Improved Insulation Design - Single piece with no external screws to reduce thermal transmission paths to prevent sweating. Foil faced insulation for ease of cleaning. No exposed insulation on edges.
- Thermostatic Expansion Valve - Bolt-on TXV provides easy installation to set up the indoor coil for the required refrigerant and does not require brazing to replace or install.
- Case Depth - These models have 20.5" casing which provide ease of attic access and tight applications.
- Thermoset Drain Pan - Positive slope for drainage to reduce cause for potential mold or contaminants.

Warranty

- Five (5) Year Limited Parts Warranty
- Ten (10) Year Extended Limited Parts Warranty (with Registration)



Residential Split

Split-System Coil

Project Name: **Dryden City Hall & Public Library**Unit Model #: **CTM36C5ADS1**Quantity: **3** Tag #: **F-1,F-2,F-5**System: **YC636E2S11,Y92E080C16SMPS1,CTM36C5ADS1**

Factory Installed Options

CTM36C5ADS1

Equipment Options		Option(s) Selected
Brand :	C	York Brand
Coil Options :	T	A-Coil
Configuration :	M	Full Cased Multi Position
Capacity :	36	3.0 Tons
Cabinet Width :	C	21.0" Cabinet Width
Refrigerant :	5	R454B Refrigerant
Refrigerant / TXV :	A	TXV
Slab Size :	D	Slab-3R-20-14
Options :	S	(RDS) A2L Sensor Factory Installed
Generation :	1	

Field Installed Accessories

Project Name: **Dryden City Hall & Public Library**

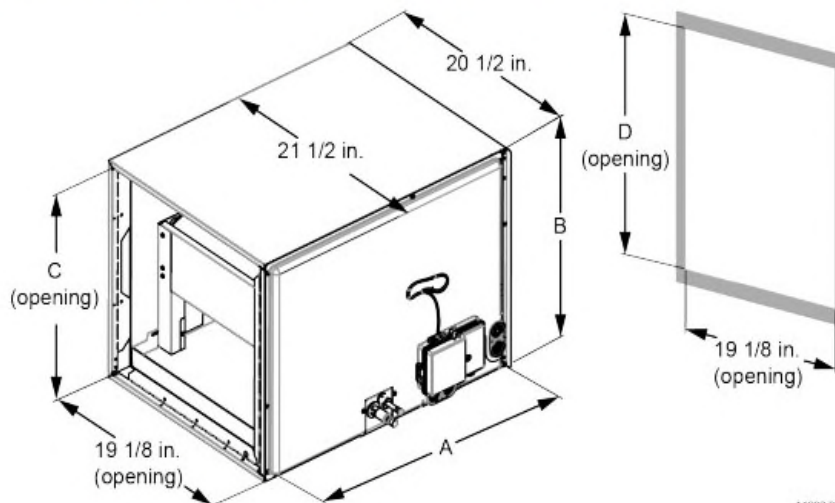
Tag: F-1,F-2,F-5 (cont'd)

Unit Model #: **CTM36C5ADS1**

Quantity: 3 Tag #: F-1,F-2,F-5

Dimensions

Dimensions - CTM full-cased horizontal left or right coil



A19B2-001

Models	Dimensions				Refrigerant connections line size	
	Height A (in.)	Width B (in.)	Opening widths C (in.) D (in.)		Liquid (in.)	Vapor (in.)
CTM18A5AAS1	23	14 1/2	13 1/2	13 1/2	3/8	3/4
CTM18A5AAN1	23	14 1/2	13 1/2	13 1/2		
CTM24A5ABS1	23	14 1/2	13 1/2	13 1/2		
CTM24A5ABN1	23	14 1/2	13 1/2	13 1/2		
CTM24B5ABS1	23	17 1/2	16 1/2	16 1/2		
CTM24B5ABN1	23	17 1/2	16 1/2	16 1/2		
CTM30B5ACS1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM30B5ACN1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM30C5ACS1	27	21	20	20		
CTM30C5ACN1	27	21	20	20		
CTM36B5ADS1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36B5ADN1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36B5CDS1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36B5CDN1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36C5ADS1	27	21	20	20		
CTM36C5ADN1	27	21	20	20		
CTM36C5CDS1	27	21	20	20		
CTM36C5CDN1	27	21	20	20		
CTM42C5CES1	28 3/4	21	20	20		7/8
CTM42D5CES1	32 3/4	24 1/2	23 1/2	23 1/2		
CTM48C5AFS1	33	21	20	20		
CTM48C5CFS1	33	21	20	20		
CTM48D5CFS1	32 3/4	24 1/2	23 1/2	23 1/2		
CTM60C5AGS1	37 1/4	21	20	20		
CTM60C5CGS1	37 1/4	24 1/2	23 1/2	23 1/2		
CTM60D5CGS1	37 1/4	24 1/2	23 1/2	23 1/2		
CTM60C5CHS1	39	21	20	20		
CTM60D5CHS1	39	24 1/2	23 1/2	23 1/2		
CTM60D5CJS1	37 1/4	24 1/2	23 1/2	23 1/2		



Residential Split

Split-System Outdoor

Project Name: **Dryden City Hall & Public Library**Unit Model #: **YC636E2S11**Quantity: **1** Tag #: **CU-3**System: **YC636E2S11,Y92E100C16SMPS1,CTM36C5ADS1**

Cooling Performance

Total net capacity	36.6 MBH
Sensible net capacity	27.7 MBH
Seasonal Efficiency (at ARI)	16.00 SEER2
Efficiency (at ARI)	12.25 EER2
Ambient DB temp.	95.0 °F
Power input	3.01 kW

Hangtag Ratings

Hangtag Cooling	14.75 SEER2
-----------------	-------------

Refrigerant

Refrigerant type	R-454B
Data plate charge with 15' lineset	3 lb 8 oz
Additional charge for Indoor Coil	12 oz

Electrical Data

Power supply	208/230-1-60
Unit min circuit ampacity	19.2 A
Unit max over-current protection	30 A

Outdoor Unit Shipping Dimensions & Weight

Hgt	40 in	Len	36 in	Wth	40 in
Weight with factory installed options	235 lb				

Matchup Information

AHRI Reference Number	216600180
AHRI Rated Capacity	36.6 MBH
AHRI Rated Efficiency	16 SEER2
CEE	N/A
Energy Star	Yes

Note: Please refer to the tech guide for actual unit dimensions

Note: Please refer to the tech guide for listed maximum static pressures



3 Ton

Product Features

- The YC6 LX Series is our new DOE 2023 compliant 16+ SEER2 split system air conditioner lineup. Optimized for tax credit and utility rebate efficiency levels using R454B refrigerant, these outdoor units are specifically designed to be matched with York indoor coils, furnaces, and air handlers to provide a complete system solution.

Unit Features

- High System Efficiency - Optimized system designs provide ENERGY STAR ratings in all tonnages. Targeted furnace and air handler matches meeting Federal Tax Credit efficiencies are available for all tonnages and markets.
- 2 Ton thru 5 Ton feature 2-stage compressors
- Easier Installation- Independent panels provide quick access for unit setup. Installation time is reduced by easy power and control wiring access. Matched with indoor TXV for optimal size and performance. The filter-drier is loose shipped for field installation and factory charged for a 15-Ft line set means less time spent brazing and charging the system. The small base dimension and reduced unit clearances make for easier retrofits.
- Accessible Information - QR code on unit provides quick access to technical documents and warranty information.
- Durable Finish - The coated steel wire fan guard, coated external fasteners, and pre-treated G90-equivalent galvanized steel chassis components resist corrosion and rust creep. Powdercoat paint further protects external panels.
- Quality Coils - The high efficiency microchannel aluminum coil is manufactured using an improved material system providing reliable performance and small unit size.
- Rugged Coil Protection - Coils are protected from mechanical damage by a proven stamped steel coil guard design.
- Protected Compressor - Compressors are protected internally by a high pressure relief valve and a temperature sensor, and externally by the system high and low pressure switches.
- Reliable Operation - Ball bearing fan motors provide superior performance in extreme temperatures.
- Environmentally Friendly - CFC-free LGWP R-454B refrigerant delivers environmentally friendly performance with zero ozone depletion.
- Low Operating Sound Levels - Developed using CFD and FEA tools, the sturdy cabinet and top design provides sound performance of 76 dBA or lower. Compatible accessories for further sound reduction are also available.
- Low Operating Sound Levels - Specific sound and vibration development tests provide a design sound performance of 74 dBA or lower. Swept-wing fan blades are featured on units 2.5-Tons and higher. Compatible accessories for further sound reduction are also available.

Warranty

- Standard 5-Years parts
- 10 Years compressor limited warranty
- Extended 10 Years parts limited warranty with registration



Residential Split

Split-System Outdoor

Project Name: **Dryden City Hall & Public Library**Unit Model #: **YC636E2S11**Quantity: **1** Tag #: **CU-3**System: **YC636E2S11,Y92E100C16SMPS1,CTM36C5ADS1**

Factory Installed Options

YC636E2S11

Equipment Options	Option(s) Selected	
Brand :	Y	York Brand
Unit Type :	C	Air Conditioner
Efficiency :	6	16+ SEER2
Capacity :	36	3.0 Tons
Refrigerant :	E	R-454B Refrigerant
Voltage :	2	208/230-1-60
Controls :	S	Standard (Conventional) Controls
Factory-Installed Options :	1	
Generation :	1	

Field Installed Accessories

- ☐ S1-01007645000 - Compressor Sound Blanket - Small Scroll (1.6 lbs)
- ☐ S1-02547272000 - Compressor Crankcase Heater - Bellyband - Scroll 240V 40W (0.3 lbs)
- ☐ S1-1HK0601 - Anchor Bracket Kit (1.4 lbs)
- ☒ S1-2LA06700424 - Standard Low Ambient Control Kit (0.8 lbs)
- ☐ S1-2PS06700524 - Low Pressure Switch Kit (0.2 lbs)
- ☐ S1-2SA06710106 - Compressor Start Assist Kit (1.3 lbs)
- ☐ S1-ADDWIRE - Add-a-Wire allows 5-wire thermostats to use only 4 wires. (0.3 lbs)
- ☐ S1-CCVREC33 - Winter Cover Kit, 35" x 32" x 33" Height (6.0 lbs)
- ☐ S1-CTS DTS - CTS Wired Temperature Sensor for thermostat | Duct *Also works for LX Series (0.3 lbs)
- ☐ S1-CTS HTS - CTS Hardwired Temperature Sensor for CTS Thermostats *Works with LX series as well (0.2 lbs)
- ☐ S1-CTS PLATE - Wall Plate for CTS Thermostats *Also works for new platform LX series models below (0.0 lbs)
- ☐ S1-CTSWFTS - CTS Temperature Sensor with WiFi for CTS Thermostats *Also works with LX Series (0.1 lbs)
- ☐ S1-LX LOCK - Locking Ring For LX-Series Thermostats (0.4 lbs)
- ☐ S1-LX PLATE - Wall Plate For LX-Series Thermostats (0.0 lbs)
- ☐ S1-LX WFM - For LX Series Thermostats - WiFi Communication (0.1 lbs)
- ☐ S1-THEC11NY - York Branded THE Value Series | 2.3" Display | 1 Stage Heating | 1 Stage Cooling | Non-Programmable | Hardwire/Battery Powered (0.7 lbs)
- ☐ S1-THEC11P5Y - York Branded THE Value Series | 2.3" Display | 1 Stage Heating | 1 Stage Cooling | 7-Day (5+2) Programmable | Hardwire/Battery Powered (0.6 lbs)
- ☐ S1-THE PLATE - Wall Plate for THE Thermostats (0.1 lbs)
- ☐ S1-THPU432-Y - York Branded CTS Series | 3/4 Stage Heating | 2 Stage Cooling | 7-day/5+2 Programmable | WiFi On-board | Dual Fuel (0.7 lbs)
- ☐ S1-THPU433-Y - York Branded CTS Series | 3/4 Stage Heating | 2 Stage Cooling | 7 Day (5+2) Programmable | Wifi | Dual Fuel (1.2 lbs)
- ☐ S1-THSU231-Y - York Branded LX Series | 2.3" Display | 2 Stage Heating | 2 Stage Cooling | 7-day Programmable | WiFi On-Board (0.2 lbs)
- ☐ S1-THSU301-Y - York Branded LX Series | 3" Display | 2 Stage Heating | 1 Stage Cooling | (5+2) 7-day Programmable (1.0 lbs)
- ☐ S1-THSU302-Y - York Branded LX Series | 3" Display | 3/4 Stage Heating | 2 Stage Cooling | (5+2) 7-day Programmable (1.0 lbs)
- ☐ S1-THSU303-Y - York Branded LX Series | 3" Display | 3/4 Stage Heating | 2 Stage Cooling | (5+2) 7-day Programmable | Humidity On-Board (0.6 lbs)
- ☐ S1-THXU430W - Wi-Fi Communicating Touchscreen Thermostat with Proprietary Hexagon Interface (White), with 4.3" display screen (0.9 lbs)

Project Name: **Dryden City Hall & Public Library**

Tag: CU-3 (cont'd)

Unit Model #: **YC636E2S11**

Quantity: 1 Tag #: CU-3

YC6 Physical and Electrical

Physical and electrical data

Model		YC618E2S11	YC624E2S11	YC636E2S11	YC648E2S11	YC660E2S11
Unit supply voltage		208-230 V, 1 ϕ , 60 Hz				
Normal voltage range ¹		187 to 252				
Minimum circuit ampacity		9.3	13.6	19.2	27.3	31.6
Maximum overcurrent device (A) ²		15	20	30	45	50
Minimum overcurrent device (A) ³		15	15	20	30	35
Compressor	Type ⁴	1-stage rotary	2-stage scroll	2-stage scroll	2-stage scroll	2-stage scroll
	Rated load (A)	6.7	10.3	14.5	20.1	23.7
	Locked rotor (A)	33	62	76	141	123
Crankcase heater		No	No	No	No	No
Factory external discharge muffler		No	No	No	No	No
Hard start kit required with TXV ⁵		No	No	No	No	No
Hard start kit part number (S1-2SA067****)		22006	10106	10106	10106	10106
Fan diameter (in.)		22	22	26	26	26
Fan motor	Type	ECM	ECM	ECM	ECM	ECM
	Rated HP	1/3	1/3	1/3	1/3	1/3
	Rated load (A)	2.0	2.0	1.4	2.0	2.0
	Nominal RPM	917	917	682	917	917
	Nominal CFM	2575	2575	3500	4275	4275
Coil	Face area (sq ft)	17.31	13.79	23.33	25.88	27.98
	Rows deep	1	1	1	1	1
	Fins per inch	23	23	23	23	23
Liquid refrigerant piping outdoor (field-installed)		3/8	3/8	3/8	3/8	3/8
Vapor refrigerant piping outdoor (field-installed) ⁶		3/4	3/4	3/4	7/8	1 1/8 \ddagger
Unit charge (lb - oz) ⁷		3-10	3-0	3-8	4-11	5-8
Charge (oz/ft)		0.57	0.57	0.57	0.60	0.67
Operating weight (lb)		165	150	235	250	255

1. Rated in accordance with AHRI Standard 110-2012, utilization range A.

2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.

3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.

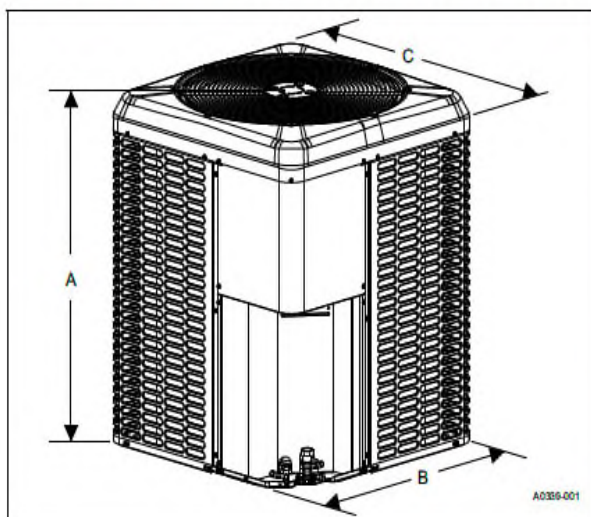
4. Rotary compressor models are limited to an equivalent length of refrigerant piping of 75 ft with no exceptions.

5. Refer to the *Hard Start Kit Accessory Installation Manual* for the hard start kit part number for each model. The hard start kit is a field-installed accessory.

6. For applications with non-standard vapor line sizes, refer to the *Applications and accessories* section in the *Technical Guide*.

7. The unit charge is correct for the outdoor unit, smallest matched indoor unit, and 15 ft of refrigerant tubing. For tubing lengths other than 15 ft, add or subtract the amount of refrigerant, using the difference in actual refrigerant piping length (not the equivalent length) multiplied by the per foot value.

\ddagger The adapter fitting must be field-installed for the required 1 1/8 in. refrigerant piping.



Dimensions

Unit model	Dimensions (in.)			Refrigerant connection service valve size (in.)	
	A	B	C	Liquid	Vapor
YC618E2S11	36 1/4	29 1/4	29 1/4	3/8	3/4
YC624E2S11	30	29 1/4	29 1/4		
YC636E2S11	36 1/4	38	34 1/4		7/8 \ddagger
YC648E2S11	39 1/2	38	34 1/4		
YC660E2S11	42 3/4	38	34 1/4		

Notes:

\ddagger Adapter fitting must be field installed for the required 1 1/8 in. refrigerant piping.

All dimensions are in inches and are subject to change without notice.

Overall height is from the bottom of the base pan to the top of the fan guard.

Overall length and width include screw heads.



Residential Split

Split-System Indoor

Project Name: **Dryden City Hall & Public Library**Unit Model #: **Y92E100C16SMPS1**Quantity: **1** Tag #: **F-3**System: **YC636E2S11,Y92E100C16SMPS1,CTM36C5ADS1**

Cooling Performance

Total net capacity	36.6 MBH
Sensible net capacity	27.7 MBH
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Unit Leaving DB temp.	61.0 °F
Unit Leaving WB temp.	58.6 °F
Leaving air temp dew point	57.1 °F

Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	95.0 MBH
Supply air	1350 cfm
Heating input capacity (Max)	100 MBH
Leaving DB temp.	125.2 °F
Air temp. rise	65.2 °F
AFUE	96.8 %

Supply Air Blower Performance

Supply air	1350 cfm
Ext. static pressure	0.3 IWG
Blower speed description	MEDIUM
Return Configuration	Upflow
Motor rating	0.75 HP
Elevation	0 ft
Drive type	DIRECT

Indoor Electrical Data

Power supply	115-1-60
Unit min circuit ampacity	10.80 A
Unit max over-current protection	20 A

Indoor Unit Shipping Dimensions & Weight

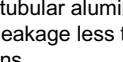
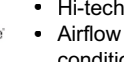
Hgt	36 in	Len	32 in	Wth	23 in
Weight with factory installed options	149 lb				

Matchup Information

AHRI Reference Number	216600180
AHRI Rated Capacity	36.6 MBH
AHRI Rated Efficiency	16 SEER2
CEE	N/A
Energy Star	Yes

Note: Please refer to the tech guide for actual unit dimensions

Note: Please refer to the tech guide for listed maximum static pressures



Product Features

Unit Features

- Two-stage heating operation includes a two-stage gas valve, two-stage inducer operation, and standard ECM blower operation. Auto-staging allows two-stage operation with a single-stage thermostat.
- Easily applied in upflow, horizontal left or right, or downflow installation with minimal conversion necessary
- Standard NOx
- Compact, easy to install, ideal height 33 in. tall cabinet
- Secondary heat exchanger made of corrosion resistant stainless steel materials.
- Patent pending self priming internal condensate trap design for easy installation.
- Built-in, high level self diagnostics with fault code displays standard on integrated control module for reliable operation
- All models are convertible to use propane (LP) gas.
- 100% shut-off main gas valve for extra safety
- Hi-tech tubular aluminized steel primary heat exchanger
- Airflow leakage less than 1% of nominal airflow for duct performance testing conditions
- 5 speed, direct drive Standard ECM style high efficiency DC motor.
- Quiet inducer operation and inducer rotates for easy conversion of venting options.
- High-efficiency blower motor for lower electrical power usage and improved AC SEER ratings
- Insulated blower compartment for thermal and acoustic performance

Warranty

- 20-year limited warranty on the heat exchanger.
- 10-year heat exchanger warranty on non-residential applications.
- 5-year limited parts warranty.
- Extended residential limited lifetime heat exchanger and 10-year limited parts warranty when product is registered online within 90 days of purchase for replacement or within 90 days of closing for new home construction.



Residential Split

Split-System Indoor

Project Name: **Dryden City Hall & Public Library**Unit Model #: **Y92E100C16SMPS1**Quantity: **1** Tag #: **F-3**System: **YC636E2S11,Y92E100C16SMPS1,CTM36C5ADS1**

Factory Installed Options

Y92E100C16SMPS1

Equipment Options	Option(s) Selected	
Brand :	Y	York Brand
Type :	9	Condensing Furnace
Stage :	2	Two Stage
Motor Control Options :	E	Standard ECM Motor
Heat Size :	100	100,000 BTU Input
Cabinet Width :	C	21 " Width
Airflow :	16	1600 CFM
Heat Type :	S	Standard NOx
Configuration :	MP	Multiposition
Controls :	S	Standard Controls
Generation :	1	

Field Installed Accessories

- | | |
|--|--|
| <ul style="list-style-type: none"> <input type="radio"/> S1-1BR0521 - Bottom Return Filter Rack Galvanized (Fits 21" wide furnace) (10.0 lbs) <input type="radio"/> S1-1BR0621 - Bottom Return Filter Rack (1" – 4") Pre-Painted To Match Furnace (Filters are NOT included with the kit) (20.0 lbs) <input type="radio"/> S1-1CB0521 - Combustible Floor Base (For Downflow Applications) (7.8 lbs) <input type="radio"/> S1-1CT0302 - Concentric Vent Termination Kit – 2" (5.5 lbs) <input type="radio"/> S1-1CT0302-636 - Concentric Vent Termination Kit – 2" (Canada) (6.0 lbs) <input type="radio"/> S1-1CT0303 - Concentric Vent Termination Kit - 3" (9.0 lbs) <input type="radio"/> S1-1CT0303-636 - Concentric Vent Termination Kit - 3" (Canada) (9.0 lbs) <input type="radio"/> S1-1HT0901 - Sidewall Vent Termination Kit – 3" (1.5 lbs) <input type="radio"/> S1-1HT0902 - Sidewall Vent Termination Kit – 2" (2.0 lbs) <input type="radio"/> S1-1NK0301 - Condensate Neutralizer Kit (3.0 lbs) <input type="radio"/> S1-1NP0347 - Propane (LP) Conversion Kit (0.6 lbs) | <ul style="list-style-type: none"> <input type="radio"/> S1-1NP0820 - Propane (LP) Conversion Kit - includes stainless steel LP Burners (3.0 lbs) <input type="radio"/> S1-1SR0402 - Side Return Filter Rack 16x25x2 Contains 1" Aluminum Mesh Filter (RNC or AOR) (4.5 lbs) <input type="radio"/> S1-2HU16700124 - Humidistat (5.0 lbs) <input type="radio"/> S1-32924441000 - Natural (NAT) Gas Stainless Steel Burner Kit (3.0 lbs) <input type="radio"/> S1-32926889000 - LP Stainless Steel Burner Kit (2.6 lbs) <input type="radio"/> S1-37348991001 - Internal Vent Kit (1.0 lbs) |
|--|--|

Project Name: **Dryden City Hall & Public Library**

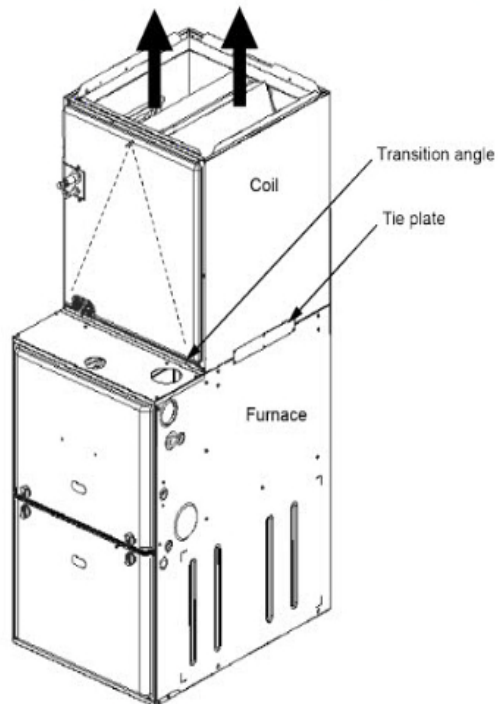
Tag: F-3 (cont'd)

Unit Model #: **Y92E100C16SMPS1**

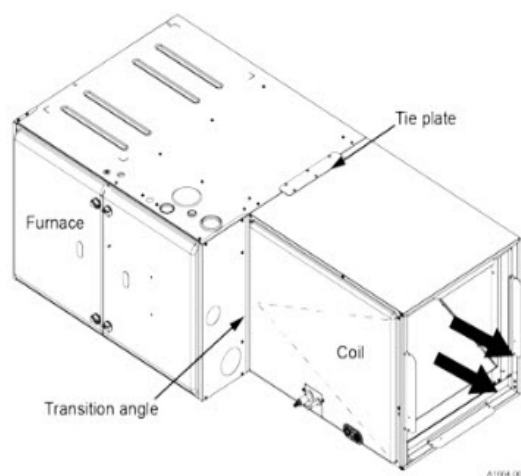
Quantity: 1 Tag #: F-3

Application

Figure 5: Vertical upflow applications with furnaces



Horizontal right application with furnace



Horizontal left application with furnace

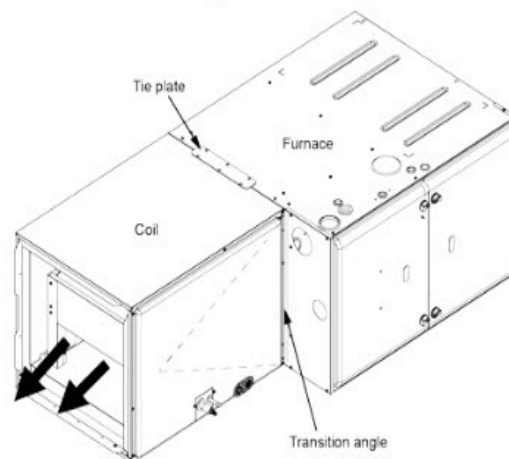
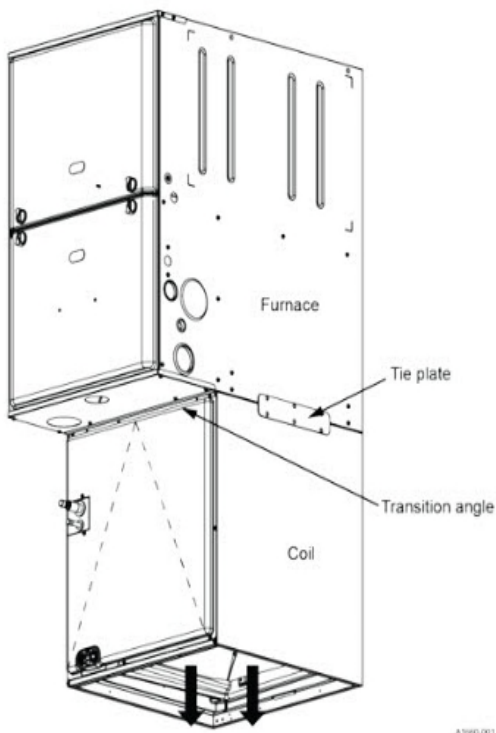


Figure 6: Vertical downflow applications with furnaces



Project Name: **Dryden City Hall & Public Library**

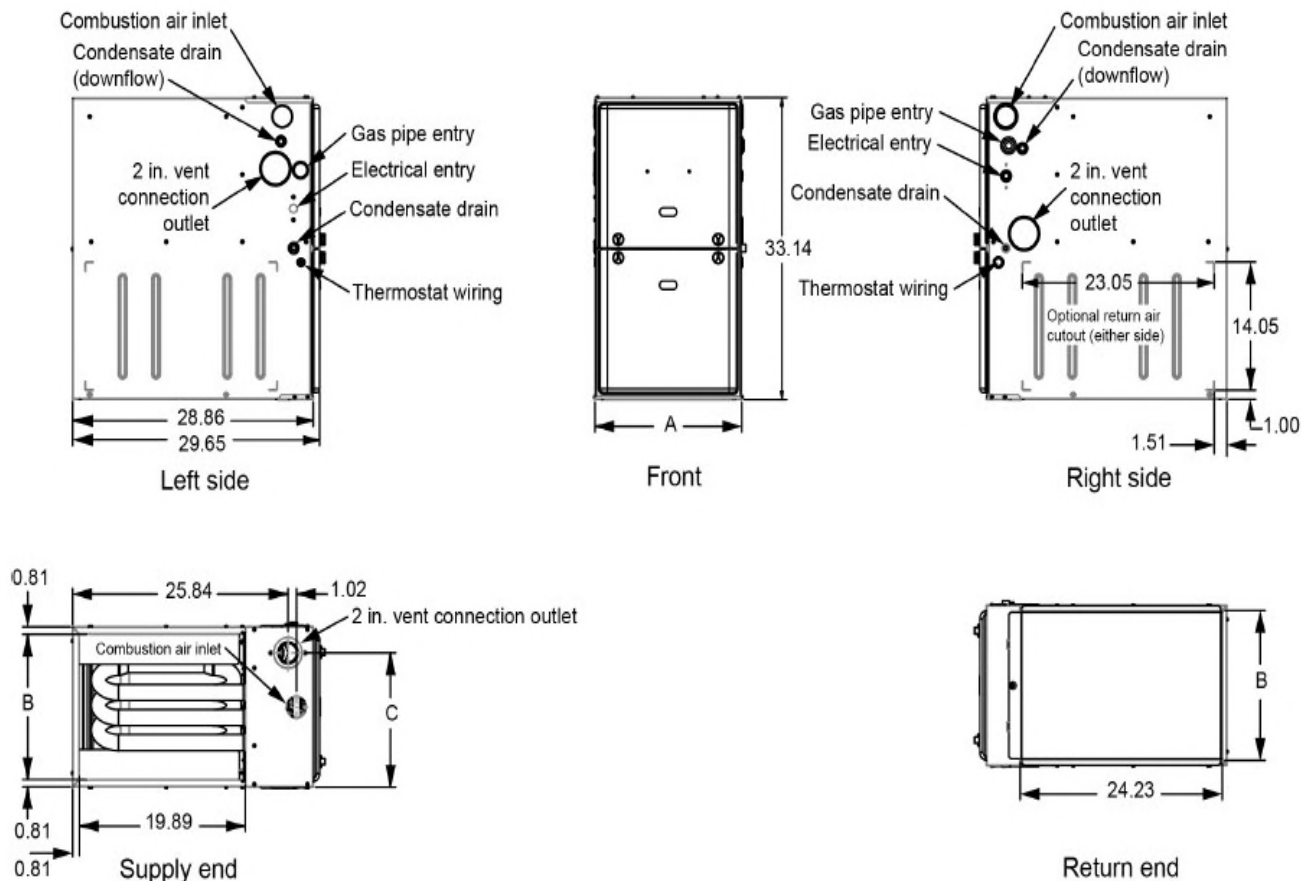
Tag: F-3 (cont'd)

Unit Model #: **Y92E100C16SMPS1**

Quantity: 1 Tag #: F-3

Y92E Dimensions

Figure 1: Dimensions



Note: All measurements are in inches.

Table 1: Cabinet and duct dimensions

Model	Cabinet size	A		B		C		Approximate operating weight	
		in.	cm	in.	cm	in.	cm	lb	kg
Y92E040A10SMPS1	A	14.5	36.8	13.4	34	11.7	29.7	106	48
Y92E060B12SMPS1	B	17.5	44.4	16.4	41.6	14.7	37.4	112	51
Y92E080B12SMPS1	B	17.5	44.4	16.4	41.6	14.7	37.4	117	53
Y92E080C16SMPS1	C	21	53.3	19.8	50.5	18.2	46.2	127	58
Y92E100C16SMPS1	C	21	53.3	19.8	50.5	18.2	46.2	131	59
Y92E100C20SMPS1	C	21	53.3	19.8	50.5	18.2	46.2	138	63
Y92E120D20SMPS1	D	24.5	62.2	23.4	59.4	21.7	55.1	147	67



Residential Split

Split-System Coil

Project Name: **Dryden City Hall & Public Library**Unit Model #: **CTM36C5ADS1**Quantity: **1** Tag #: **F-3**System: **YC636E2S11,Y92E100C16SMPS1,CTM36C5ADS1**

Cooling Performance

Total gross capacity	36.6 MBH
Sensible gross capacity	27.7 MBH
Ambient DB temp.	95.0 °F

Refrigerant

Refrigerant type	R-454B
Data plate charge with 15' lineset	3 lb 8 oz
Additional charge for Indoor Coil	12 oz

Coil Shipping Dimensions & Weight

Hgt	27 in	Len	22 in	Wth	21 in
Weight with factory installed options	59 lb				

Matchup Information

AHRI Reference Number	216600180
AHRI Rated Capacity	36.6 MBH
AHRI Rated Efficiency	16 SEER2
CEE	N/A
Energy Star	Yes

Note: Please refer to the tech guide for actual unit dimensions

Note: Please refer to the tech guide for listed maximum static pressures



Product Features

- MaxAlloy™ Coil - Long life aluminum coils built to deliver lasting performance, efficiency and reliability.

Unit Features

- CTM series full-cased coils are suitable for upflow, downflow and horizontal applications.
- (RDS) A2L Sensor Factory Installed
- Even-flow - New distributor design for improved and balanced refrigerant flow and even coil circuit performance.
- Powder-painted - G30 galvanized steel case provides a coated edge that resists corrosion and rust creep.
- Quality Construction - Structural components are made of Aluminum or G90 galvanized steel to prevent corrosion.
- Improved Insulation Design - Single piece with no external screws to reduce thermal transmission paths to prevent sweating. Foil faced insulation for ease of cleaning. No exposed insulation on edges.
- Thermostatic Expansion Valve - Bolt-on TXV provides easy installation to set up the indoor coil for the required refrigerant and does not require brazing to replace or install.
- Case Depth - These models have 20.5" casing which provide ease of attic access and tight applications.
- Thermoset Drain Pan - Positive slope for drainage to reduce cause for potential mold or contaminants.

Warranty

- Five (5) Year Limited Parts Warranty
- Ten (10) Year Extended Limited Parts Warranty (with Registration)



Residential Split

Split-System Coil

Project Name: **Dryden City Hall & Public Library**Unit Model #: **CTM36C5ADS1**Quantity: **1** Tag #: **F-3**System: **YC636E2S11,Y92E100C16SMPS1,CTM36C5ADS1**

Factory Installed Options

CTM36C5ADS1

Equipment Options		Option(s) Selected
Brand :	C	York Brand
Coil Options :	T	A-Coil
Configuration :	M	Full Cased Multi Position
Capacity :	36	3.0 Tons
Cabinet Width :	C	21.0" Cabinet Width
Refrigerant :	5	R454B Refrigerant
Refrigerant / TXV :	A	TXV
Slab Size :	D	Slab-3R-20-14
Options :	S	(RDS) A2L Sensor Factory Installed
Generation :	1	

Field Installed Accessories

Project Name: **Dryden City Hall & Public Library**

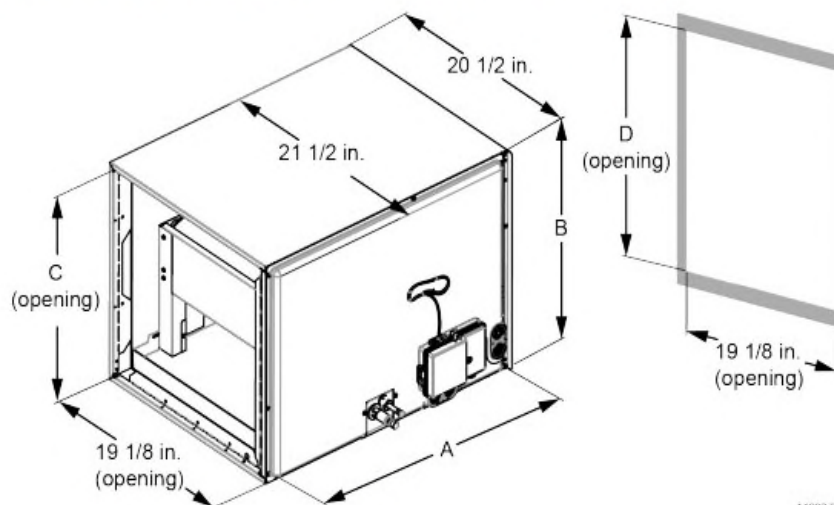
Tag: F-3 (cont'd)

Unit Model #: **CTM36C5ADS1**

Quantity: 1 Tag #: F-3

Dimensions

Dimensions - CTM full-cased horizontal left or right coil



A19B2-001

Models	Dimensions				Refrigerant connections line size	
	Height A (in.)	Width B (in.)	Opening widths C (in.) D (in.)		Liquid (in.)	Vapor (in.)
CTM18A5AAS1	23	14 1/2	13 1/2	13 1/2	3/8	3/4
CTM18A5AAN1	23	14 1/2	13 1/2	13 1/2		
CTM24A5ABS1	23	14 1/2	13 1/2	13 1/2		
CTM24A5ABN1	23	14 1/2	13 1/2	13 1/2		
CTM24B5ABS1	23	17 1/2	16 1/2	16 1/2		
CTM24B5ABN1	23	17 1/2	16 1/2	16 1/2		
CTM30B5ACS1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM30B5ACN1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM30C5ACS1	27	21	20	20		
CTM30C5ACN1	27	21	20	20		
CTM36B5ADS1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36B5ADN1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36B5CDS1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36B5CDN1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36C5ADS1	27	21	20	20		
CTM36C5ADN1	27	21	20	20		
CTM36C5CDS1	27	21	20	20		
CTM36C5CDN1	27	21	20	20		
CTM42C5CES1	28 3/4	21	20	20		7/8
CTM42D5CES1	32 3/4	24 1/2	23 1/2	23 1/2		
CTM48C5AFS1	33	21	20	20		
CTM48C5CFS1	33	21	20	20		
CTM48D5CFS1	32 3/4	24 1/2	23 1/2	23 1/2		
CTM60C5AGS1	37 1/4	21	20	20		
CTM60C5CGS1	37 1/4	24 1/2	23 1/2	23 1/2		
CTM60D5CGS1	37 1/4	24 1/2	23 1/2	23 1/2		
CTM60C5CHS1	39	21	20	20		
CTM60D5CHS1	39	24 1/2	23 1/2	23 1/2		
CTM60D5CJS1	37 1/4	24 1/2	23 1/2	23 1/2		



Residential Split

Split-System Outdoor

Project Name: **Dryden City Hall & Public Library**Unit Model #: **YC624E2S11**Quantity: **2** Tag #: **CU-4**System: **YC624E2S11,Y91E080B12SMPS1,CTM24B5ABS1**

Cooling Performance

Total net capacity	23.8 MBH
Sensible net capacity	17.9 MBH
Seasonal Efficiency (at ARI)	17.00 SEER2
Efficiency (at ARI)	12.50 EER2
Ambient DB temp.	95.0 °F
Power input	2.02 kW

Hangtag Ratings

Hangtag Cooling	15.00 SEER2
-----------------	-------------

Refrigerant

Refrigerant type	R-454B
Data plate charge with 15' lineset	3 lb
Additional charge for Indoor Coil	2 oz

Electrical Data

Power supply	208/230-1-60
Unit min circuit ampacity	13.6 A
Unit max over-current protection	20 A

Outdoor Unit Shipping Dimensions & Weight

Hgt	34 in	Len	31 in	Wth	31 in
Weight with factory installed options	150 lb				

Matchup Information

AHRI Reference Number	216600738
AHRI Rated Capacity	23.8 MBH
AHRI Rated Efficiency	17 SEER2
CEE	N/A
Energy Star	Yes

Note: Please refer to the tech guide for actual unit dimensions

Note: Please refer to the tech guide for listed maximum static pressures



2 Ton

Product Features

- The YC6 LX Series is our new DOE 2023 compliant 16+ SEER2 split system air conditioner lineup. Optimized for tax credit and utility rebate efficiency levels using R454B refrigerant, these outdoor units are specifically designed to be matched with York indoor coils, furnaces, and air handlers to provide a complete system solution.

Unit Features

- High System Efficiency - Optimized system designs provide ENERGY STAR ratings in all tonnages. Targeted furnace and air handler matches meeting Federal Tax Credit efficiencies are available for all tonnages and markets.
- 2 Ton thru 5 Ton feature 2-stage compressors
- Easier Installation- Independent panels provide quick access for unit setup. Installation time is reduced by easy power and control wiring access. Matched with indoor TXV for optimal size and performance. The filter-drier is loose shipped for field installation and factory charged for a 15-Ft line set means less time spent brazing and charging the system. The small base dimension and reduced unit clearances make for easier retrofits.
- Accessible Information - QR code on unit provides quick access to technical documents and warranty information.
- Durable Finish - The coated steel wire fan guard, coated external fasteners, and pre-treated G90-equivalent galvanized steel chassis components resist corrosion and rust creep. Powdercoat paint further protects external panels.
- Quality Coils - The high efficiency microchannel aluminum coil is manufactured using an improved material system providing reliable performance and small unit size.
- Rugged Coil Protection - Coils are protected from mechanical damage by a proven stamped steel coil guard design.
- Protected Compressor - Compressors are protected internally by a high pressure relief valve and a temperature sensor, and externally by the system high and low pressure switches.
- Reliable Operation - Ball bearing fan motors provide superior performance in extreme temperatures.
- Environmentally Friendly - CFC-free LGWP R-454B refrigerant delivers environmentally friendly performance with zero ozone depletion.
- Low Operating Sound Levels - Developed using CFD and FEA tools, the sturdy cabinet and top design provides sound performance of 76 dBA or lower. Compatible accessories for further sound reduction are also available.
- Low Operating Sound Levels - Specific sound and vibration development tests provide a design sound performance of 74 dBA or lower. Swept-wing fan blades are featured on units 2.5-Tons and higher. Compatible accessories for further sound reduction are also available.

Warranty

- Standard 5-Years parts
- 10 Years compressor limited warranty
- Extended 10 Years parts limited warranty with registration



Residential Split

Split-System Outdoor

Project Name: **Dryden City Hall & Public Library**Unit Model #: **YC624E2S11**Quantity: **2** Tag #: **CU-4**System: **YC624E2S11,Y91E080B12SMPS1,CTM24B5ABS1**

Factory Installed Options

YC624E2S11

Equipment Options	Option(s) Selected
Brand :	Y York Brand
Unit Type :	C Air Conditioner
Efficiency :	6 16+ SEER2
Capacity :	24 2.0 Tons
Refrigerant :	E R-454B Refrigerant
Voltage :	2 208/230-1-60
Controls :	S Standard (Conventional) Controls
Factory-Installed Options :	1
Generation :	1

Field Installed Accessories

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> <input type="radio"/> S1-01007645000 - Compressor Sound Blanket - Small Scroll (1.6 lbs) <input type="radio"/> S1-02547272000 - Compressor Crankcase Heater - Bellyband - Scroll 240V 40W (0.3 lbs) <input type="radio"/> S1-1HK0601 - Anchor Bracket Kit (1.4 lbs) <input checked="" type="radio"/> S1-2LA06700424 - Standard Low Ambient Control Kit (0.8 lbs) <input type="radio"/> S1-2PS06700524 - Low Pressure Switch Kit (0.2 lbs) <input type="radio"/> S1-2SA06710106 - Compressor Start Assist Kit (1.3 lbs) <input type="radio"/> S1-ADDWIRE - Add-a-Wire allows 5-wire thermostats to use only 4 wires. (0.3 lbs) <input type="radio"/> S1-CCVREB26 - Winter Cover Kit, 29" x 29" x 26" Height (7.0 lbs) <input type="radio"/> S1-CTS DTS - CTS Wired Temperature Sensor for thermostat Duct *Also works for LX Series (0.3 lbs) <input type="radio"/> S1-CTS HTS - CTS Hardwired Temperature Sensor for CTS Thermostats *Works with LX series as well (0.2 lbs) <input type="radio"/> S1-CTS PLATE - Wall Plate for CTS Thermostats *Also works for new platform LX series models below (0.0 lbs) | <ul style="list-style-type: none"> <input type="radio"/> S1-CTSWFTS - CTS Temperature Sensor with WiFi for CTS Thermostats *Also works with LX Series (0.1 lbs) <input type="radio"/> S1-LX LOCK - Locking Ring For LX-Series Thermostats (0.4 lbs) <input type="radio"/> S1-LX PLATE - Wall Plate For LX-Series Thermostats (0.0 lbs) <input type="radio"/> S1-LX WFM - For LX Series Thermostats - WiFi Communication (0.1 lbs) <input type="radio"/> S1-THEC11NY - York Branded THE Value Series 2.3" Display 1 Stage Heating 1 Stage Cooling Non-Programmable Hardwire/Battery Powered (0.7 lbs) <input type="radio"/> S1-THEC11P5Y - York Branded THE Value Series 2.3" Display 1 Stage Heating 1 Stage Cooling 7-Day (5+2) Programmable Hardwire/Battery Powered (0.6 lbs) <input type="radio"/> S1-THE PLATE - Wall Plate for THE Thermostats (0.1 lbs) <input type="radio"/> S1-THPU432-Y - York Branded CTS Series 3/4 Stage Heating 2 Stage Cooling 7-day/5+2 Programmable WiFi On-board Dual Fuel (0.7 lbs) | <ul style="list-style-type: none"> <input type="radio"/> S1-THPU433-Y - York Branded CTS Series 3/4 Stage Heating 2 Stage Cooling 7 Day (5+2) Programmable Wifi Dual Fuel (1.2 lbs) <input type="radio"/> S1-THSU231-Y - York Branded LX Series 2.3" Display 2 Stage Heating 2 Stage Cooling 7-day Programmable WiFi On-Board (0.2 lbs) <input type="radio"/> S1-THSU301-Y - York Branded LX Series 3" Display 2 Stage Heating 1 Stage Cooling (5+2) 7-day Programmable (1.0 lbs) <input type="radio"/> S1-THSU302-Y - York Branded LX Series 3" Display 3/4 Stage Heating 2 Stage Cooling (5+2) 7-day Programmable (1.0 lbs) <input type="radio"/> S1-THSU303-Y - York Branded LX Series 3" Display 3/4 Stage Heating 2 Stage Cooling (5+2) 7-day Programmable Humidity On-Board (0.6 lbs) <input type="radio"/> S1-THXU430W - Wi-Fi Communicating Touchscreen Thermostat with Proprietary Hexagon Interface (White), with 4.3" display screen (0.9 lbs) |
|--|--|---|

Project Name: **Dryden City Hall & Public Library**

Tag: CU-4 (cont'd)

Unit Model #: **YC624E2S11**

Quantity: 2 Tag #: CU-4

YC6 Physical and Electrical

Physical and electrical data

Model	YC618E2S11	YC624E2S11	YC636E2S11	YC648E2S11	YC660E2S11
Unit supply voltage	208-230 V, 1 ϕ , 60 Hz				
Normal voltage range ¹	187 to 252				
Minimum circuit ampacity	9.3	13.6	19.2	27.3	31.6
Maximum overcurrent device (A) ²	15	20	30	45	50
Minimum overcurrent device (A) ³	15	15	20	30	35
Compressor	Type ⁴	1-stage rotary	2-stage scroll	2-stage scroll	2-stage scroll
	Rated load (A)	6.7	10.3	14.5	20.1
	Locked rotor (A)	33	62	76	141
Crankcase heater	No	No	No	No	No
Factory external discharge muffler	No	No	No	No	No
Hard start kit required with TXV ⁵	No	No	No	No	No
Hard start kit part number (S1-2SA067****)	22006	10106	10106	10106	10106
Fan diameter (in.)	22	22	26	26	26
Fan motor	Type	ECM	ECM	ECM	ECM
	Rated HP	1/3	1/3	1/3	1/3
	Rated load (A)	2.0	2.0	1.4	2.0
	Nominal RPM	917	917	682	917
	Nominal CFM	2575	2575	3500	4275
Coil	Face area (sq ft)	17.31	13.79	23.33	25.88
	Rows deep	1	1	1	1
	Fins per inch	23	23	23	23
Liquid refrigerant piping outdoor (field-installed)	3/8	3/8	3/8	3/8	3/8
Vapor refrigerant piping outdoor (field-installed) ⁶	3/4	3/4	3/4	7/8	1 1/8 \pm
Unit charge (lb - oz) ⁷	3-10	3-0	3-8	4-11	5-8
Charge (oz/ft)	0.57	0.57	0.57	0.60	0.67
Operating weight (lb)	165	150	235	250	255

1. Rated in accordance with AHRI Standard 110-2012, utilization range A.

2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.

3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.

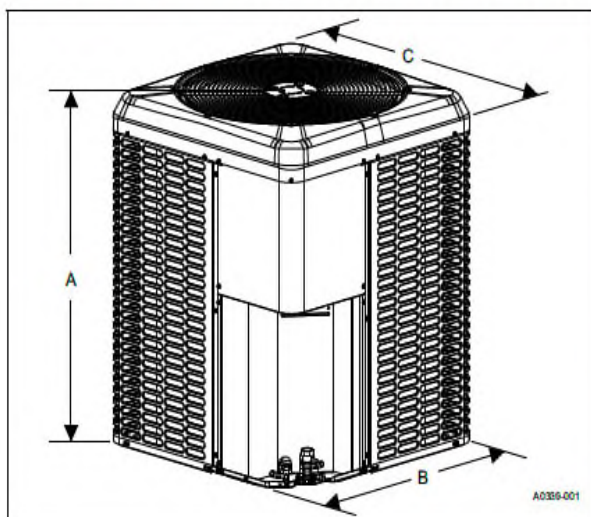
4. Rotary compressor models are limited to an equivalent length of refrigerant piping of 75 ft with no exceptions.

5. Refer to the *Hard Start Kit Accessory Installation Manual* for the hard start kit part number for each model. The hard start kit is a field-installed accessory.

6. For applications with non-standard vapor line sizes, refer to the *Applications and accessories* section in the *Technical Guide*.

7. The unit charge is correct for the outdoor unit, smallest matched indoor unit, and 15 ft of refrigerant tubing. For tubing lengths other than 15 ft, add or subtract the amount of refrigerant, using the difference in actual refrigerant piping length (not the equivalent length) multiplied by the per foot value.

\pm The adapter fitting must be field-installed for the required 1 1/8 in. refrigerant piping.



Dimensions

Unit model	Dimensions (in.)			Refrigerant connection service valve size (in.)	
	A	B	C	Liquid	Vapor
YC618E2S11	36 1/4	29 1/4	29 1/4	3/8	3/4
YC624E2S11	30	29 1/4	29 1/4		
YC636E2S11	36 1/4	38	34 1/4		7/8
YC648E2S11	39 1/2	38	34 1/4		
YC660E2S11	42 3/4	38	34 1/4		7/8 \pm

Notes:

\pm Adapter fitting must be field installed for the required 1 1/8 in. refrigerant piping.

All dimensions are in inches and are subject to change without notice.

Overall height is from the bottom of the base pan to the top of the fan guard.

Overall length and width include screw heads.



Residential Split

Split-System Indoor

Project Name: **Dryden City Hall & Public Library**Unit Model #: **Y91E080B12SMPS1**Quantity: **2** Tag #: **F-4**System: **YC624E2S11,Y91E080B12SMPS1,CTM24B5ABS1**

Cooling Performance

Total net capacity	23.8 MBH
Sensible net capacity	17.9 MBH
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Unit Leaving DB temp.	61.6 °F
Unit Leaving WB temp.	58.8 °F
Leaving air temp dew point	57.1 °F

Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	76.0 MBH
Supply air	900 cfm
Heating input capacity (Max)	80 MBH
Leaving DB temp.	138.2 °F
Air temp. rise	78.2 °F
AFUE	96.0 %

Supply Air Blower Performance

Supply air	900 cfm
Ext. static pressure	0.3 IWG
Blower speed description	MED LOW
Return Configuration	Upflow
Motor rating	0.50 HP
Elevation	0 ft
Drive type	DIRECT

Indoor Electrical Data

Power supply	115-1-60
Unit min circuit ampacity	8.80 A
Unit max over-current protection	15 A

Indoor Unit Shipping Dimensions & Weight

Hgt	36 in	Len	32 in	Wth	20 in
Weight with factory installed options	126 lb				

Matchup Information

AHRI Reference Number	216600738
AHRI Rated Capacity	23.8 MBH
AHRI Rated Efficiency	17 SEER2
CEE	N/A
Energy Star	Yes

Note: Please refer to the tech guide for actual unit dimensions

Note: Please refer to the tech guide for listed maximum static pressures



Product Features

Unit Features

- Easily applied in upflow, horizontal left or right, or downflow installation with minimal conversion necessary
- Standard NOx
- Compact, easy to install, ideal height 33 in. tall cabinet
- Secondary heat exchanger made of corrosion resistant stainless steel materials.
- Patent pending self priming internal condensate trap design for easy installation.
- Built-in, high level self diagnostics with fault code displays standard on integrated control module for reliable operation
- All models are convertible to use propane (LP) gas.
- 100% shut-off main gas valve for extra safety
- Hi-tech tubular aluminized steel primary heat exchanger
- Airflow leakage less than 1% of nominal airflow for duct performance testing conditions
- 5 speed, direct drive Standard ECM style high efficiency DC motor.
- Quiet inducer operation and inducer rotates for easy conversion of venting options.
- High-efficiency blower motor for lower electrical power usage and improved AC SEER ratings
- Insulated blower compartment for thermal and acoustic performance

Warranty

- 20-year limited warranty on the heat exchanger.
- 10-year heat exchanger warranty on non-residential applications.
- 5-year limited parts warranty.
- Extended residential limited lifetime heat exchanger and 10-year limited parts warranty when product is registered online within 90 days of purchase for replacement or within 90 days of closing for new home construction.



Residential Split

Split-System Indoor

Page: 42

Project Name: **Dryden City Hall & Public Library**Unit Model #: **Y91E080B12SMPS1**Quantity: **2** Tag #: **F-4**System: **YC624E2S11,Y91E080B12SMPS1,CTM24B5ABS1**

Factory Installed Options

Y91E080B12SMPS1

Equipment Options	Option(s) Selected	
Brand :	Y	York Brand
Type :	9	Condensing Furnace
Stage :	1	Single Stage
Motor Control Options :	E	Standard ECM Motor
Heat Size :	080	80,000 BTU Input
Cabinet Width :	B	17.5 " Width
Airflow :	12	1200 CFM
Heat Type :	S	Standard NOx
Configuration :	MP	Multiposition
Controls :	S	Standard Controls
Generation :	1	

Field Installed Accessories

- | | |
|---|---|
| <ul style="list-style-type: none"> <input type="radio"/> S1-1BR0517 - Bottom Return Filter Rack Galvanized (Fits 17.5" wide furnace) (9.2 lbs) <input type="radio"/> S1-1CT0302 - Concentric Vent Termination Kit – 2" (5.5 lbs) <input type="radio"/> S1-1CT0302-636 - Concentric Vent Termination Kit – 2" (Canada) (6.0 lbs) <input type="radio"/> S1-1CT0303 - Concentric Vent Termination Kit - 3" (9.0 lbs) <input type="radio"/> S1-1CT0303-636 - Concentric Vent Termination Kit - 3" (Canada) (9.0 lbs) <input type="radio"/> S1-1FR03017 - Bottom Return Filter Rack (1" – 4") Pre-Painted To Match Furnace (Filters are NOT included with the kit) (15.0 lbs) <input type="radio"/> S1-1HT0901 - Sidewall Vent Termination Kit – 3" (1.5 lbs) <input type="radio"/> S1-1HT0902 - Sidewall Vent Termination Kit – 2" (2.0 lbs) <input type="radio"/> S1-1NK0301 - Condensate Neutralizer Kit (3.0 lbs) <input type="radio"/> S1-1NP0347 - Propane (LP) Conversion Kit (0.6 lbs) <input type="radio"/> S1-1NP0820 - Propane (LP) Conversion Kit - includes stainless steel LP Burners (3.0 lbs) | <ul style="list-style-type: none"> <input type="radio"/> S1-1PS3316 - High Altitude Kit - For altitudes above 5000 feet (1.0 lbs) <input type="radio"/> S1-1SR0200 - Side Return Filter Rack 16x25x2 Contains 2" Hi-Velocity Pleated Filter (RNC or AOR) (11.0 lbs) <input type="radio"/> S1-1SR0402 - Side Return Filter Rack 16x25x2 Contains 1" Aluminum Mesh Filter (RNC or AOR) (4.5 lbs) <input type="radio"/> S1-2HU16700124 - Humidistat (5.0 lbs) <input type="radio"/> S1-37327901001 - York Affinity Cladding Kit (2.3 lbs) <input type="radio"/> S1-37348990001 - Internal Vent Kit (1.9 lbs) |
|---|---|

Project Name: **Dryden City Hall & Public Library**

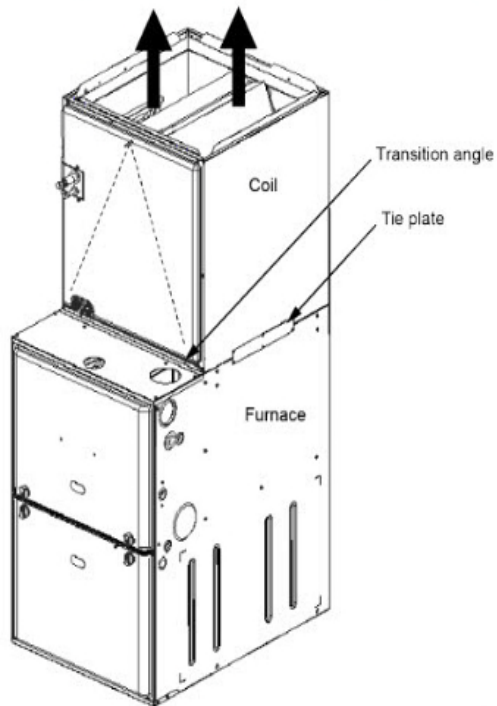
Tag: F-4 (cont'd)

Unit Model #: **Y91E080B12SMPS1**

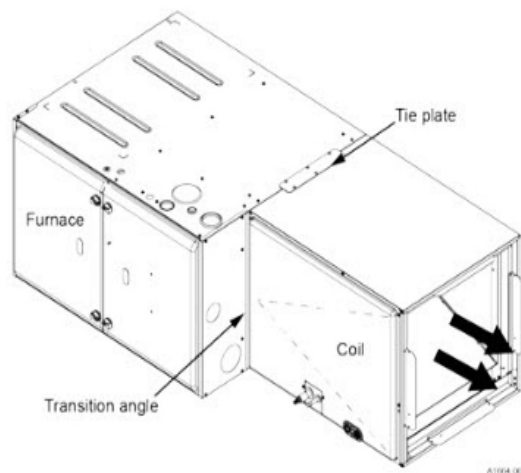
Quantity: 2 Tag #: F-4

Application

Figure 5: Vertical upflow applications with furnaces



Horizontal right application with furnace



Horizontal left application with furnace

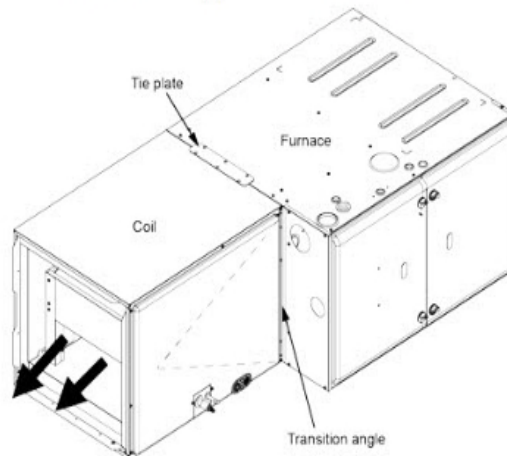
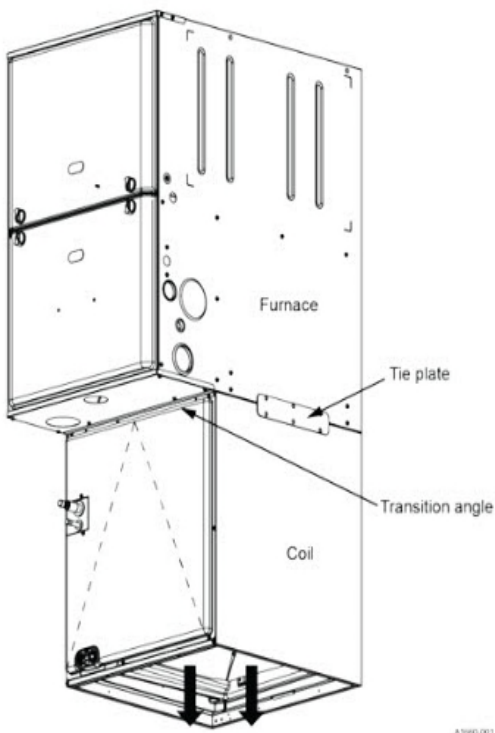


Figure 6: Vertical downflow applications with furnaces



Project Name: **Dryden City Hall & Public Library**

Tag: F-4 (cont'd)

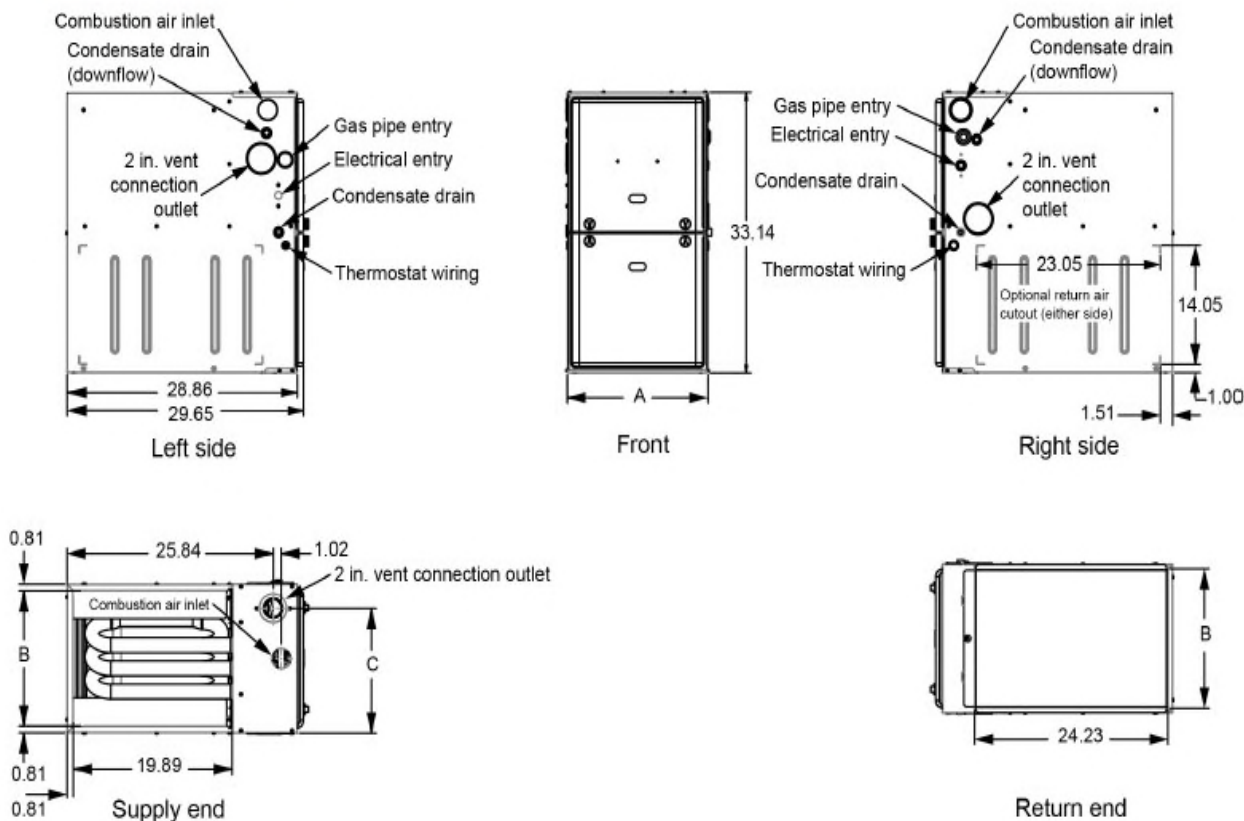
Unit Model #: **Y91E080B12SMPS1**

Quantity: 2 Tag #: F-4

Dimensions

Dimensions

Figure 1: Dimensions



A1795-001

Table 1: Cabinet and duct dimensions

Models	Cabinet size	A (in.)	A (cm)	B (in.)	B (cm)	C (in.)	C (cm)	Approximate operating weight (lb) (kg)
Y91E026A08SMPS1	A	14.5	36.8	13.4	34.0	11.7	29.7	103 (47)
Y91E040A10SMPS1	A	14.5	36.8	13.4	34	11.7	29.7	106 (48)
Y91E060A10SMPS1	A	14.5	36.8	13.4	34	11.7	29.7	109 (49)
Y91E060B12SMPS1	B	17.5	44.4	16.4	41.6	14.7	37.4	112 (51)
Y91E080B12SMPS1	B	17.5	44.4	16.4	41.6	14.7	37.4	117 (53)
Y91E080C16SMPS1	C	21	53.3	19.8	50.5	18.2	46.2	127 (58)
Y91E080C20SMPS1	C	21	53.3	19.8	50.5	18.2	46.2	135 (61)
Y91E100C16SMPS1	C	21	53.3	19.8	50.5	18.2	46.2	131 (59)
Y91E100C20SMPS1	C	21	53.3	19.8	50.5	18.2	46.2	138 (63)
Y91E120D20SMPS1	D	24.5	62.2	23.4	59.4	21.7	55.1	147 (67)



Residential Split

Split-System Coil

Project Name: **Dryden City Hall & Public Library**Unit Model #: **CTM24B5ABS1**Quantity: **2** Tag #: **F-4**System: **YC624E2S11,Y91E080B12SMPS1,CTM24B5ABS1**

Cooling Performance

Total gross capacity	23.8 MBH
Sensible gross capacity	17.9 MBH
Ambient DB temp.	95.0 °F

Refrigerant

Refrigerant type	R-454B
Data plate charge with 15' lineset	3 lb
Additional charge for Indoor Coil	2 oz

Coil Shipping Dimensions & Weight

Hgt	23 in	Len	22 in	Wth	18 in
Weight with factory installed options	39 lb				

Matchup Information

AHRI Reference Number	216600738
AHRI Rated Capacity	23.8 MBH
AHRI Rated Efficiency	17 SEER2
CEE	N/A
Energy Star	Yes

Note: Please refer to the tech guide for actual unit dimensions

Note: Please refer to the tech guide for listed maximum static pressures



Product Features

- MaxAlloy™ Coil - Long life aluminum coils built to deliver lasting performance, efficiency and reliability.

Unit Features

- CTM series full-cased coils are suitable for upflow, downflow and horizontal applications.
- (RDS) A2L Sensor Factory Installed
- Even-flow - New distributor design for improved and balanced refrigerant flow and even coil circuit performance.
- Powder-painted - G30 galvanized steel case provides a coated edge that resists corrosion and rust creep.
- Quality Construction - Structural components are made of Aluminum or G90 galvanized steel to prevent corrosion.
- Improved Insulation Design - Single piece with no external screws to reduce thermal transmission paths to prevent sweating. Foil faced insulation for ease of cleaning. No exposed insulation on edges.
- Thermostatic Expansion Valve - Bolt-on TXV provides easy installation to set up the indoor coil for the required refrigerant and does not require brazing to replace or install.
- Case Depth - These models have 20.5" casing which provide ease of attic access and tight applications.
- Thermoset Drain Pan - Positive slope for drainage to reduce cause for potential mold or contaminants.

Warranty

- Five (5) Year Limited Parts Warranty
- Ten (10) Year Extended Limited Parts Warranty (with Registration)



Residential Split

Split-System Coil

Page: 47

Project Name: **Dryden City Hall & Public Library**Unit Model #: **CTM24B5ABS1**Quantity: **2** Tag #: **F-4**System: **YC624E2S11,Y91E080B12SMPS1,CTM24B5ABS1**

Factory Installed Options

CTM24B5ABS1

Equipment Options		Option(s) Selected
Brand :	C	York Brand
Coil Options :	T	A-Coil
Configuration :	M	Full Cased Multi Position
Capacity :	24	2.0 Tons
Cabinet Width :	B	17.5" Cabinet Width
Refrigerant :	5	R454B Refrigerant
Refrigerant / TXV :	A	TXV
Slab Size :	B	Slab-2R-16-18
Options :	S	(RDS) A2L Sensor Factory Installed
Generation :	1	

Field Installed Accessories

Project Name: **Dryden City Hall & Public Library**

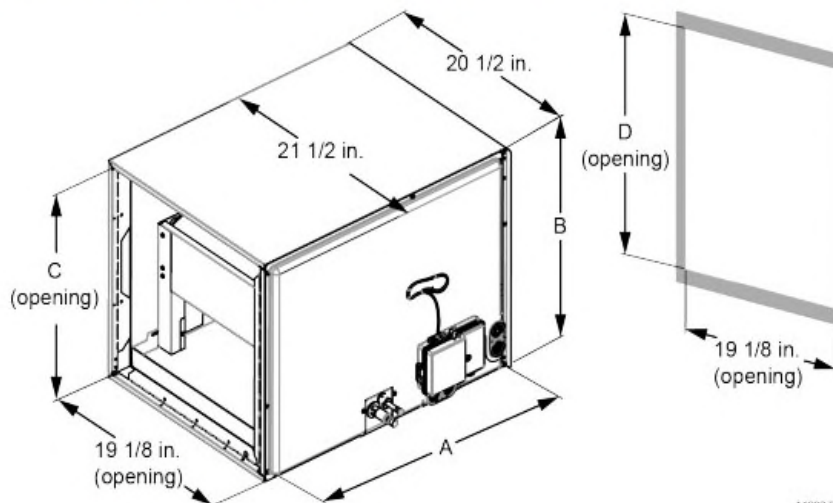
Tag: F-4 (cont'd)

Unit Model #: **CTM24B5ABS1**

Quantity: 2 Tag #: F-4

Dimensions

Dimensions - CTM full-cased horizontal left or right coil



A19B2-001

Models	Dimensions				Refrigerant connections line size	
	Height A (in.)	Width B (in.)	Opening widths C (in.) D (in.)		Liquid (in.)	Vapor (in.)
CTM18A5AAS1	23	14 1/2	13 1/2	13 1/2	3/8	3/4
CTM18A5AAN1	23	14 1/2	13 1/2	13 1/2		
CTM24A5ABS1	23	14 1/2	13 1/2	13 1/2		
CTM24A5ABN1	23	14 1/2	13 1/2	13 1/2		
CTM24B5ABS1	23	17 1/2	16 1/2	16 1/2		
CTM24B5ABN1	23	17 1/2	16 1/2	16 1/2		
CTM30B5ACS1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM30B5ACN1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM30C5ACS1	27	21	20	20		
CTM30C5ACN1	27	21	20	20		
CTM36B5ADS1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36B5ADN1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36B5CDS1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36B5CDN1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36C5ADS1	27	21	20	20		
CTM36C5ADN1	27	21	20	20		
CTM36C5CDS1	27	21	20	20		
CTM36C5CDN1	27	21	20	20		
CTM42C5CES1	28 3/4	21	20	20		7/8
CTM42D5CES1	32 3/4	24 1/2	23 1/2	23 1/2		
CTM48C5AFS1	33	21	20	20		
CTM48C5CFS1	33	21	20	20		
CTM48D5CFS1	32 3/4	24 1/2	23 1/2	23 1/2		
CTM60C5AGS1	37 1/4	21	20	20		
CTM60C5CGS1	37 1/4	24 1/2	23 1/2	23 1/2		
CTM60D5CGS1	37 1/4	24 1/2	23 1/2	23 1/2		
CTM60C5CHS1	39	21	20	20		
CTM60D5CHS1	39	24 1/2	23 1/2	23 1/2		
CTM60D5CJS1	37 1/4	24 1/2	23 1/2	23 1/2		



Residential Split

Split-System Outdoor

Project Name: **Dryden City Hall & Public Library**Unit Model #: **YC636E2S11**Quantity: **1** Tag #: **CU-6**System: **YC636E2S11**

Cooling Performance

Total gross capacity	34.0 MBH
Ambient DB temp.	95.0 °F
Power input	2.34 kW
Suction pressure	118 psig
Saturated suction temp.	45 °F

Hangtag Ratings

Hangtag Cooling	14.75 SEER2
-----------------	-------------

Refrigerant

Electrical Data

Power supply	208/230-1-60
Unit min circuit ampacity	19.2 A
Unit max over-current protection	30 A

Outdoor Unit Shipping Dimensions & Weight

Hgt	40 in	Len	36 in	Wth	40 in
Weight with factory installed options	235 lb				

Note: Please refer to the tech guide for actual unit dimensions

Note: Please refer to the tech guide for listed maximum static pressures



3 Ton

Product Features

- The YC6 LX Series is our new DOE 2023 compliant 16+ SEER2 split system air conditioner lineup. Optimized for tax credit and utility rebate efficiency levels using R454B refrigerant, these outdoor units are specifically designed to be matched with York indoor coils, furnaces, and air handlers to provide a complete system solution.

Unit Features

- High System Efficiency - Optimized system designs provide ENERGY STAR ratings in all tonnages. Targeted furnace and air handler matches meeting Federal Tax Credit efficiencies are available for all tonnages and markets. 2 Ton thru 5 Ton feature 2-stage compressors
- Easier Installation- Independent panels provide quick access for unit setup. Installation time is reduced by easy power and control wiring access. Matched with indoor TXV for optimal size and performance. The filter-drier is loose shipped for field installation and factory charged for a 15-Ft line set means less time spent brazing and charging the system. The small base dimension and reduced unit clearances make for easier retrofits.
- Accessible Information - QR code on unit provides quick access to technical documents and warranty information.
- Durable Finish - The coated steel wire fan guard, coated external fasteners, and pre-treated G90-equivalent galvanized steel chassis components resist corrosion and rust creep. Powdercoat paint further protects external panels.
- Quality Coils - The high efficiency microchannel aluminum coil is manufactured using an improved material system providing reliable performance and small unit size.
- Rugged Coil Protection - Coils are protected from mechanical damage by a proven stamped steel coil guard design.
- Protected Compressor - Compressors are protected internally by a high pressure relief valve and a temperature sensor, and externally by the system high and low pressure switches.
- Reliable Operation - Ball bearing fan motors provide superior performance in extreme temperatures.
- Environmentally Friendly - CFC-free LGWP R-454B refrigerant delivers environmentally friendly performance with zero ozone depletion.
- Low Operating Sound Levels - Developed using CFD and FEA tools, the sturdy cabinet and top design provides sound performance of 76 dBA or lower. Compatible accessories for further sound reduction are also available.
- Low Operating Sound Levels - Specific sound and vibration development tests provide a design sound performance of 74 dBA or lower. Swept-wing fan blades are featured on units 2.5-Tons and higher. Compatible accessories for further sound reduction are also available.

Warranty

- Standard 5-Years parts
- 10 Years compressor limited warranty
- Extended 10 Years parts limited warranty with registration



Residential Split

Split-System Outdoor

Project Name: **Dryden City Hall & Public Library**Unit Model #: **YC636E2S11**Quantity: **1** Tag #: **CU-6**System: **YC636E2S11**

Factory Installed Options

YC636E2S11

Equipment Options	Option(s) Selected	
Brand :	Y	York Brand
Unit Type :	C	Air Conditioner
Efficiency :	6	16+ SEER2
Capacity :	36	3.0 Tons
Refrigerant :	E	R-454B Refrigerant
Voltage :	2	208/230-1-60
Controls :	S	Standard (Conventional) Controls
Factory-Installed Options :	1	
Generation :	1	

Field Installed Accessories

- ☐ S1-01007645000 - Compressor Sound Blanket - Small Scroll (1.6 lbs)
- ☐ S1-02547272000 - Compressor Crankcase Heater - Bellyband - Scroll 240V 40W (0.3 lbs)
- ☐ S1-1HK0601 - Anchor Bracket Kit (1.4 lbs)
- ☒ S1-2LA06700424 - Standard Low Ambient Control Kit (0.8 lbs)
- ☐ S1-2PS06700524 - Low Pressure Switch Kit (0.2 lbs)
- ☐ S1-2SA06710106 - Compressor Start Assist Kit (1.3 lbs)
- ☐ S1-ADDWIRE - Add-a-Wire allows 5-wire thermostats to use only 4 wires. (0.3 lbs)
- ☐ S1-CCVREC33 - Winter Cover Kit, 35" x 32" x 33" Height (6.0 lbs)
- ☐ S1-CTS DTS - CTS Wired Temperature Sensor for thermostat | Duct *Also works for LX Series (0.3 lbs)
- ☐ S1-CTS HTS - CTS Hardwired Temperature Sensor for CTS Thermostats *Works with LX series as well (0.2 lbs)
- ☐ S1-CTS PLATE - Wall Plate for CTS Thermostats *Also works for new platform LX series models below (0.0 lbs)
- ☐ S1-CTSWFTS - CTS Temperature Sensor with WiFi for CTS Thermostats *Also works with LX Series (0.1 lbs)
- ☐ S1-LX LOCK - Locking Ring For LX-Series Thermostats (0.4 lbs)
- ☐ S1-LX PLATE - Wall Plate For LX-Series Thermostats (0.0 lbs)
- ☐ S1-LX WFM - For LX Series Thermostats - WiFi Communication (0.1 lbs)
- ☐ S1-THEC11NY - York Branded THE Value Series | 2.3" Display | 1 Stage Heating | 1 Stage Cooling | Non-Programmable | Hardwire/Battery Powered (0.7 lbs)
- ☐ S1-THEC11P5Y - York Branded THE Value Series | 2.3" Display | 1 Stage Heating | 1 Stage Cooling | 7-Day (5+2) Programmable | Hardwire/Battery Powered (0.6 lbs)
- ☐ S1-THE PLATE - Wall Plate for THE Thermostats (0.1 lbs)
- ☐ S1-THPU432-Y - York Branded CTS Series | 3/4 Stage Heating | 2 Stage Cooling | 7-day/5+2 Programmable | WiFi On-board | Dual Fuel (0.7 lbs)
- ☐ S1-THPU433-Y - York Branded CTS Series | 3/4 Stage Heating | 2 Stage Cooling | 7 Day (5+2) Programmable | Wifi | Dual Fuel (1.2 lbs)
- ☐ S1-THSU231-Y - York Branded LX Series | 2.3" Display | 2 Stage Heating | 2 Stage Cooling | 7-day Programmable | WiFi On-Board (0.2 lbs)
- ☐ S1-THSU301-Y - York Branded LX Series | 3" Display | 2 Stage Heating | 1 Stage Cooling | (5+2) 7-day Programmable (1.0 lbs)
- ☐ S1-THSU302-Y - York Branded LX Series | 3" Display | 3/4 Stage Heating | 2 Stage Cooling | (5+2) 7-day Programmable (1.0 lbs)
- ☐ S1-THSU303-Y - York Branded LX Series | 3" Display | 3/4 Stage Heating | 2 Stage Cooling | (5+2) 7-day Programmable | Humidity On-Board (0.6 lbs)
- ☐ S1-THXU430W - Wi-Fi Communicating Touchscreen Thermostat with Proprietary Hexagon Interface (White), with 4.3" display screen (0.9 lbs)

Project Name: **Dryden City Hall & Public Library**

Tag: CU-6 (cont'd)

Unit Model #: **YC636E2S11**

Quantity: 1 Tag #: CU-6

YC6 Physical and Electrical

Physical and electrical data

Model	YC618E2S11	YC624E2S11	YC636E2S11	YC648E2S11	YC660E2S11
Unit supply voltage	208-230 V, 1 ϕ , 60 Hz				
Normal voltage range ¹	187 to 252				
Minimum circuit ampacity	9.3	13.6	19.2	27.3	31.6
Maximum overcurrent device (A) ²	15	20	30	45	50
Minimum overcurrent device (A) ³	15	15	20	30	35
Compressor	Type ⁴	1-stage rotary	2-stage scroll	2-stage scroll	2-stage scroll
	Rated load (A)	6.7	10.3	14.5	20.1
	Locked rotor (A)	33	62	76	141
Crankcase heater	No	No	No	No	No
Factory external discharge muffler	No	No	No	No	No
Hard start kit required with TXV ⁵	No	No	No	No	No
Hard start kit part number (S1-2SA067****)	22006	10106	10106	10106	10106
Fan diameter (in.)	22	22	26	26	26
Fan motor	Type	ECM	ECM	ECM	ECM
	Rated HP	1/3	1/3	1/3	1/3
	Rated load (A)	2.0	2.0	1.4	2.0
	Nominal RPM	917	917	682	917
	Nominal CFM	2575	2575	3500	4275
Coil	Face area (sq ft)	17.31	13.79	23.33	25.88
	Rows deep	1	1	1	1
	Fins per inch	23	23	23	23
Liquid refrigerant piping outdoor (field-installed)	3/8	3/8	3/8	3/8	3/8
Vapor refrigerant piping outdoor (field-installed) ⁶	3/4	3/4	3/4	7/8	1 1/8 \ddagger
Unit charge (lb - oz) ⁷	3-10	3-0	3-8	4-11	5-8
Charge (oz/ft)	0.57	0.57	0.57	0.60	0.67
Operating weight (lb)	165	150	235	250	255

1. Rated in accordance with AHRI Standard 110-2012, utilization range A.

2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.

3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.

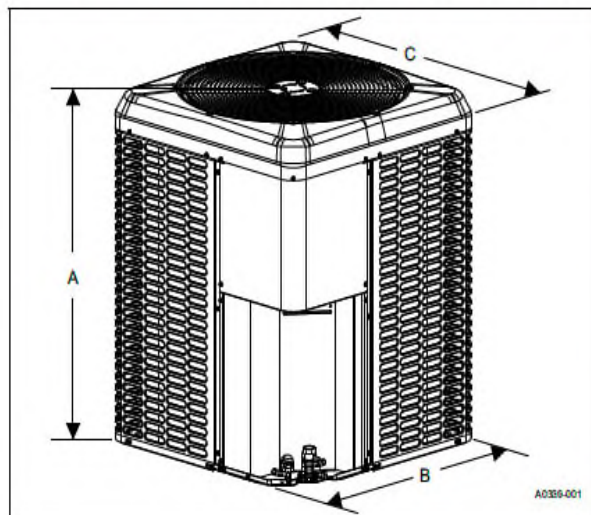
4. Rotary compressor models are limited to an equivalent length of refrigerant piping of 75 ft with no exceptions.

5. Refer to the *Hard Start Kit Accessory Installation Manual* for the hard start kit part number for each model. The hard start kit is a field-installed accessory.

6. For applications with non-standard vapor line sizes, refer to the *Applications and accessories* section in the *Technical Guide*.

7. The unit charge is correct for the outdoor unit, smallest matched indoor unit, and 15 ft of refrigerant tubing. For tubing lengths other than 15 ft, add or subtract the amount of refrigerant, using the difference in actual refrigerant piping length (not the equivalent length) multiplied by the per foot value.

\ddagger The adapter fitting must be field-installed for the required 1 1/8 in. refrigerant piping.



Dimensions

Unit model	Dimensions (in.)			Refrigerant connection service valve size (in.)	
	A	B	C	Liquid	Vapor
YC618E2S11	36 1/4	29 1/4	29 1/4	3/8	3/4
YC624E2S11	30	29 1/4	29 1/4		
YC636E2S11	36 1/4	38	34 1/4		7/8
YC648E2S11	39 1/2	38	34 1/4		
YC660E2S11	42 3/4	38	34 1/4		7/8 \ddagger

Notes:

\ddagger Adapter fitting must be field installed for the required 1 1/8 in. refrigerant piping.

All dimensions are in inches and are subject to change without notice.

Overall height is from the bottom of the base pan to the top of the fan guard.

Overall length and width include screw heads.



Residential Split

Split-System Indoor

Project Name: **Dryden City Hall & Public Library**Unit Model #: **Y92E100C20SMPS1**Quantity: **1** Tag #: **F-6**System: **Y92E100C20SMPS1,CTM36C5ADS1**

Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	95.0 MBH
Supply air	1650 cfm
Heating input capacity (Max)	100 MBH
Leaving DB temp.	113.3 °F
Air temp. rise	53.3 °F
AFUE	96.4 %

Supply Air Blower Performance

Supply air	1650 cfm
Ext. static pressure	0.3 IWG
Blower speed description	MEDIUM
Motor rating	1.00 HP
Elevation	0 ft
Drive type	DIRECT

Indoor Electrical Data

Power supply	115-1-60
Unit min circuit ampacity	14.60 A
Unit max over-current protection	20 A

Indoor Unit Shipping Dimensions & Weight

Hgt	39 in	Len	32 in	Wth	23 in
Weight with factory installed options	145 lb				

Note: Please refer to the tech guide for actual unit dimensions

Note: Please refer to the tech guide for listed maximum static pressures



Product Features

Unit Features

- Two-stage heating operation includes a two-stage gas valve, two-stage inducer operation, and standard ECM blower operation. Auto-staging allows two-stage operation with a single-stage thermostat.
- Easily applied in upflow, horizontal left or right, or downflow installation with minimal conversion necessary
- Standard NOx
- Compact, easy to install, ideal height 33 in. tall cabinet
- Secondary heat exchanger made of corrosion resistant stainless steel materials.
- Patent pending self priming internal condensate trap design for easy installation.
- Built-in, high level self diagnostics with fault code displays standard on integrated control module for reliable operation
- All models are convertible to use propane (LP) gas.
- 100% shut-off main gas valve for extra safety
- Hi-tech tubular aluminized steel primary heat exchanger
- Airflow leakage less than 1% of nominal airflow for duct performance testing conditions
- 5 speed, direct drive Standard ECM style high efficiency DC motor.
- Quiet inducer operation and inducer rotates for easy conversion of venting options.
- High-efficiency blower motor for lower electrical power usage and improved AC SEER ratings
- Insulated blower compartment for thermal and acoustic performance

Warranty

- 20-year limited warranty on the heat exchanger.
- 10-year heat exchanger warranty on non-residential applications.
- 5-year limited parts warranty.
- Extended residential limited lifetime heat exchanger and 10-year limited parts warranty when product is registered online within 90 days of purchase for replacement or within 90 days of closing for new home construction.



Residential Split

Split-System Indoor

Page: 57

Project Name: **Dryden City Hall & Public Library**Unit Model #: **Y92E100C20SMPS1**Quantity: **1** Tag #: **F-6**System: **Y92E100C20SMPS1,CTM36C5ADS1**

Factory Installed Options

Y92E100C20SMPS1

Equipment Options	Option(s) Selected
Brand :	Y York Brand
Type :	9 Condensing Furnace
Stage :	2 Two Stage
Motor Control Options :	E Standard ECM Motor
Heat Size :	100 100,000 BTU Input
Cabinet Width :	C 21 " Width
Airflow :	20 2000 CFM
Heat Type :	S Standard NOx
Configuration :	MP Multiposition
Controls :	S Standard Controls
Generation :	1

Field Installed Accessories

- ☐ S1-1BR0521 - Bottom Return Filter Rack Galvanized (Fits 21" wide furnace) (10.0 lbs)
- ☐ S1-1BR0621 - Bottom Return Filter Rack (1" – 4") Pre-Painted To Match Furnace (Filters are NOT included with the kit) (20.0 lbs)
- ☐ S1-1CB0521 - Combustible Floor Base (For Downflow Applications) (7.8 lbs)
- ☐ S1-1CT0302 - Concentric Vent Termination Kit – 2" (5.5 lbs)
- ☐ S1-1CT0302-636 - Concentric Vent Termination Kit – 2" (Canada) (6.0 lbs)
- ☐ S1-1CT0303 - Concentric Vent Termination Kit - 3" (9.0 lbs)
- ☐ S1-1CT0303-636 - Concentric Vent Termination Kit - 3" (Canada) (9.0 lbs)
- ☐ S1-1HT0901 - Sidewall Vent Termination Kit – 3" (1.5 lbs)
- ☐ S1-1HT0902 - Sidewall Vent Termination Kit – 2" (2.0 lbs)
- ☐ S1-1NK0301 - Condensate Neutralizer Kit (3.0 lbs)
- ☐ S1-1NP0347 - Propane (LP) Conversion Kit (0.6 lbs)
- ☐ S1-1NP0820 - Propane (LP) Conversion Kit - includes stainless steel LP Burners (3.0 lbs)
- ☐ S1-1SR0402 - Side Return Filter Rack 16x25x2 Contains 1" Aluminum Mesh Filter (RNC or AOR) (4.5 lbs)
- ☐ S1-2HU16700124 - Humidistat (5.0 lbs)
- ☐ S1-32924441000 - Natural (NAT) Gas Stainless Steel Burner Kit (3.0 lbs)
- ☐ S1-32926889000 - LP Stainless Steel Burner Kit (2.6 lbs)
- ☐ S1-37348991001 - Internal Vent Kit (1.0 lbs)

Project Name: **Dryden City Hall & Public Library**

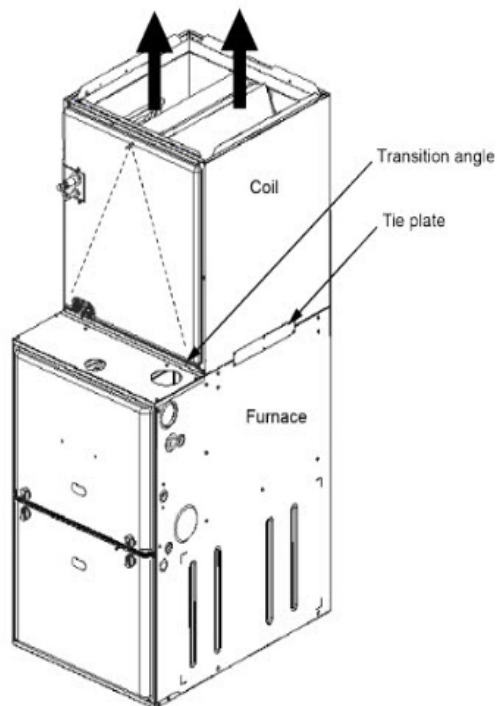
Tag: F-6 (cont'd)

Unit Model #: **Y92E100C20SMPS1**

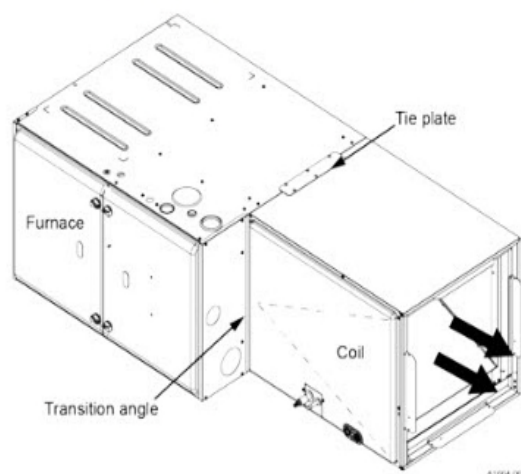
Quantity: 1 Tag #: F-6

Application

Figure 5: Vertical upflow applications with furnaces



Horizontal right application with furnace



Horizontal left application with furnace

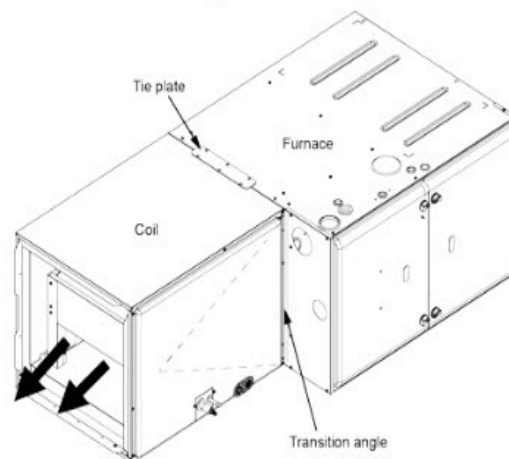
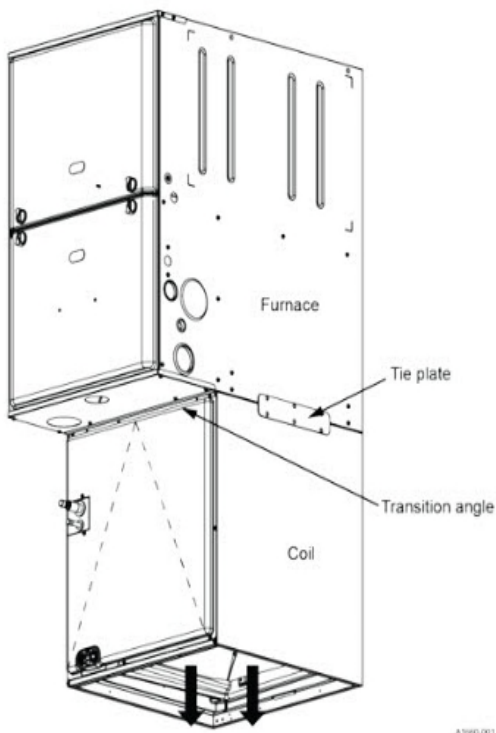


Figure 6: Vertical downflow applications with furnaces



Project Name: **Dryden City Hall & Public Library**

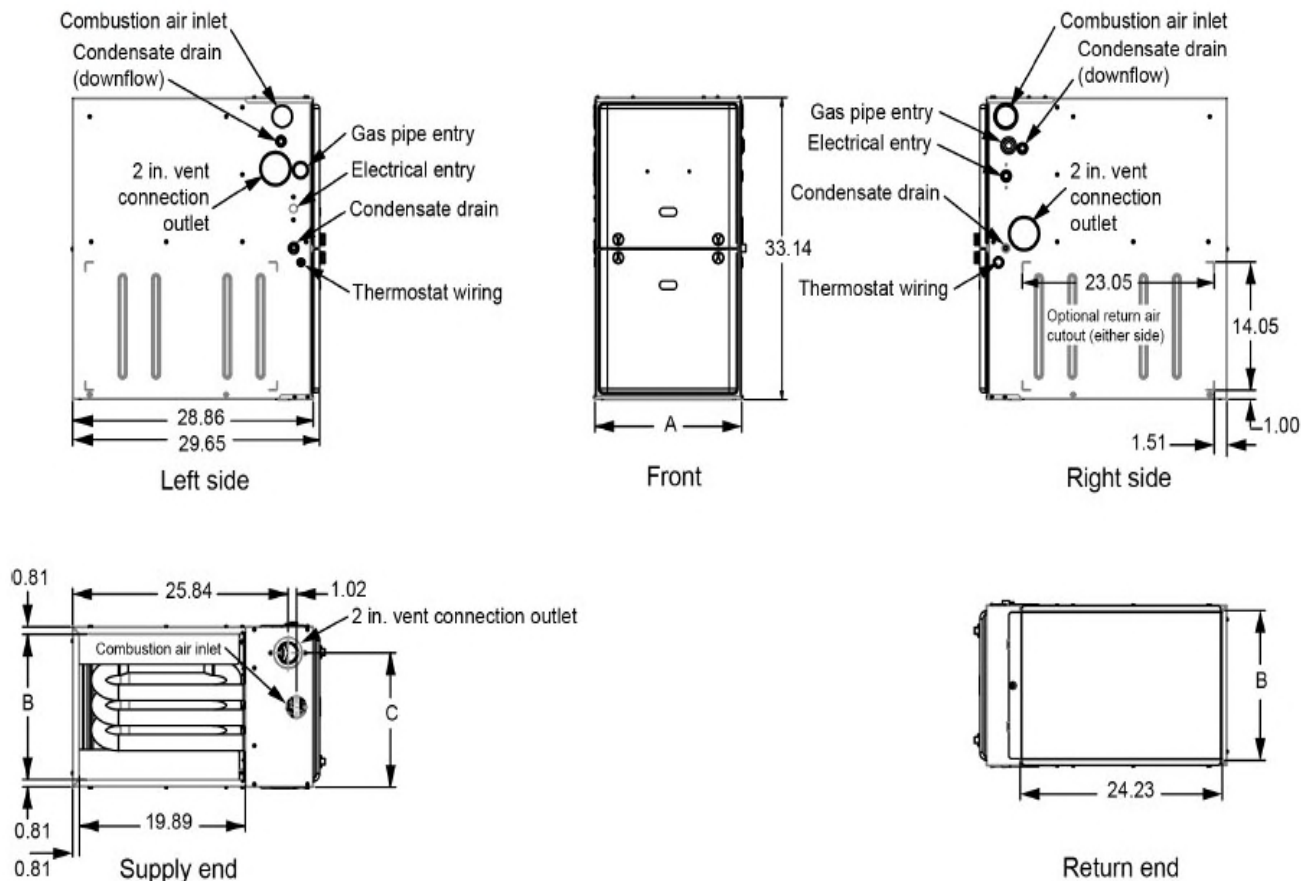
Tag: F-6 (cont'd)

Unit Model #: **Y92E100C20SMPS1**

Quantity: 1 Tag #: F-6

Y92E Dimensions

Figure 1: Dimensions



Note: All measurements are in inches.

Table 1: Cabinet and duct dimensions

Model	Cabinet size	A		B		C		Approximate operating weight	
		in.	cm	in.	cm	in.	cm	lb	kg
Y92E040A10SMPS1	A	14.5	36.8	13.4	34	11.7	29.7	106	48
Y92E060B12SMPS1	B	17.5	44.4	16.4	41.6	14.7	37.4	112	51
Y92E080B12SMPS1	B	17.5	44.4	16.4	41.6	14.7	37.4	117	53
Y92E080C16SMPS1	C	21	53.3	19.8	50.5	18.2	46.2	127	58
Y92E100C16SMPS1	C	21	53.3	19.8	50.5	18.2	46.2	131	59
Y92E100C20SMPS1	C	21	53.3	19.8	50.5	18.2	46.2	138	63
Y92E120D20SMPS1	D	24.5	62.2	23.4	59.4	21.7	55.1	147	67



Residential Split

Split-System Coil

Page: 61

Project Name: **Dryden City Hall & Public Library**Unit Model #: **CTM36C5ADS1**Quantity: **1** Tag #: **F-6**System: **Y92E100C20SMPS1,CTM36C5ADS1**

Refrigerant

Refrigerant type	R-454B
Data plate charge with 15' lineset	4 lb 1 oz

Coil Shipping Dimensions & Weight

Hgt	27 in	Len	22 in	Wth	21 in
Weight with factory installed options	59 lb				

Note: Please refer to the tech guide for actual unit dimensions

Note: Please refer to the tech guide for listed maximum static pressures



Product Features

- MaxAlloy™ Coil - Long life aluminum coils built to deliver lasting performance, efficiency and reliability.

Unit Features

- CTM series full-cased coils are suitable for upflow, downflow and horizontal applications.
- (RDS) A2L Sensor Factory Installed
- Even-flow - New distributor design for improved and balanced refrigerant flow and even coil circuit performance.
- Powder-painted - G30 galvanized steel case provides a coated edge that resists corrosion and rust creep.
- Quality Construction - Structural components are made of Aluminum or G90 galvanized steel to prevent corrosion.
- Improved Insulation Design - Single piece with no external screws to reduce thermal transmission paths to prevent sweating. Foil faced insulation for ease of cleaning. No exposed insulation on edges.
- Thermostatic Expansion Valve - Bolt-on TXV provides easy installation to set up the indoor coil for the required refrigerant and does not require brazing to replace or install.
- Case Depth - These models have 20.5" casing which provide ease of attic access and tight applications.
- Thermoset Drain Pan - Positive slope for drainage to reduce cause for potential mold or contaminants.

Warranty

- Five (5) Year Limited Parts Warranty
- Ten (10) Year Extended Limited Parts Warranty (with Registration)



Residential Split

Split-System Coil

Project Name: **Dryden City Hall & Public Library**Unit Model #: **CTM36C5ADS1**Quantity: **1** Tag #: **F-6**System: **Y92E100C20SMPS1,CTM36C5ADS1**

Factory Installed Options

CTM36C5ADS1

Equipment Options		Option(s) Selected
Brand :	C	York Brand
Coil Options :	T	A-Coil
Configuration :	M	Full Cased Multi Position
Capacity :	36	3.0 Tons
Cabinet Width :	C	21.0" Cabinet Width
Refrigerant :	5	R454B Refrigerant
Refrigerant / TXV :	A	TXV
Slab Size :	D	Slab-3R-20-14
Options :	S	(RDS) A2L Sensor Factory Installed
Generation :	1	

Field Installed Accessories

Project Name: **Dryden City Hall & Public Library**

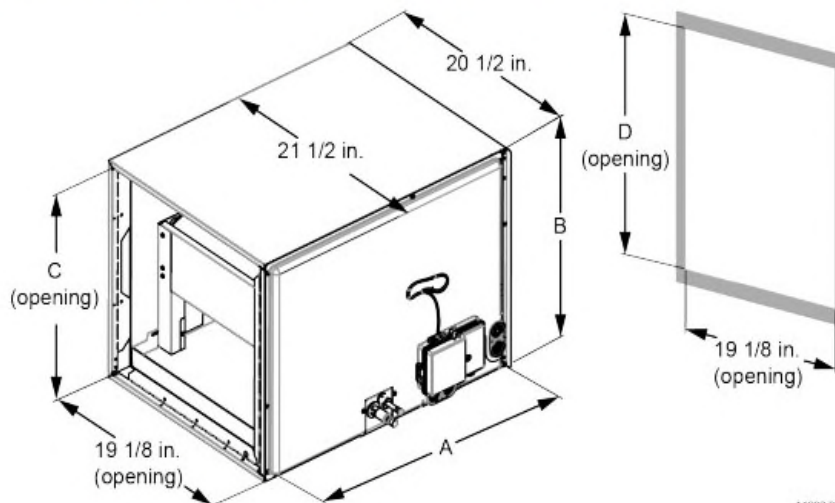
Tag: F-6 (cont'd)

Unit Model #: **CTM36C5ADS1**

Quantity: 1 Tag #: F-6

Dimensions

Dimensions - CTM full-cased horizontal left or right coil



A19B2-001

Models	Dimensions				Refrigerant connections line size	
	Height A (in.)	Width B (in.)	Opening widths C (in.) D (in.)		Liquid (in.)	Vapor (in.)
CTM18A5AAS1	23	14 1/2	13 1/2	13 1/2	3/8	3/4
CTM18A5AAN1	23	14 1/2	13 1/2	13 1/2		
CTM24A5ABS1	23	14 1/2	13 1/2	13 1/2		
CTM24A5ABN1	23	14 1/2	13 1/2	13 1/2		
CTM24B5ABS1	23	17 1/2	16 1/2	16 1/2		
CTM24B5ABN1	23	17 1/2	16 1/2	16 1/2		
CTM30B5ACS1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM30B5ACN1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM30C5ACS1	27	21	20	20		
CTM30C5ACN1	27	21	20	20		
CTM36B5ADS1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36B5ADN1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36B5CDS1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36B5CDN1	25 5/8	17 1/2	16 1/2	16 1/2		
CTM36C5ADS1	27	21	20	20		
CTM36C5ADN1	27	21	20	20		
CTM36C5CDS1	27	21	20	20		
CTM36C5CDN1	27	21	20	20		
CTM42C5CES1	28 3/4	21	20	20		7/8
CTM42D5CES1	32 3/4	24 1/2	23 1/2	23 1/2		
CTM48C5AFS1	33	21	20	20		
CTM48C5CFS1	33	21	20	20		
CTM48D5CFS1	32 3/4	24 1/2	23 1/2	23 1/2		
CTM60C5AGS1	37 1/4	21	20	20		
CTM60C5CGS1	37 1/4	24 1/2	23 1/2	23 1/2		
CTM60D5CGS1	37 1/4	24 1/2	23 1/2	23 1/2		
CTM60C5CHS1	39	21	20	20		
CTM60D5CHS1	39	24 1/2	23 1/2	23 1/2		
CTM60D5CJS1	37 1/4	24 1/2	23 1/2	23 1/2		

SUBMITTAL INFORMATION

System **Dryden City Hall & Public Library** Tag(s) H-1

Materials

Model	Description	Qty
UE010XW0U1	HUMISTEAM X TYPE 22 LBS/HR 208/3 STAND COND DISP CYL	1
SHOSE00030	RUBBER STEAM HOSE, 30 MM (PER FOOT)	10
DP045D30RU	STEAM DISTRIBUTION PIPE DP SERIES INOX L=450MM DIAM.30	1
CHOSE00038	3/8" CONDENSATE HOSE FOR USE WITH METRIC DPs (PER FOOT)	13
BL0T3A00H2USP	SPAREPART - CYLINDER BL 3PH 10-15KG/H MOD.A HB	1
PC-301	DUCT MOUNT DIFF. PRESS SW	1
DPDC112000	DUCT SENSOR TEMP. -10T60GR.C. (OUT 0-10VDC) / HUMID. RH 10-90% (OUT 0-10VDC)	1
DPDC112000	DUCT SENSOR TEMP. -10T60GR.C. (OUT 0-10VDC) / HUMID. RH 10-90% (OUT 0-10VDC)	1

Design Data

Duct Width **18"** Humidification Load **18 lbs/hr**

UE010XW0U1 Steam Humidifier Data

Height	28.0"	Width	14.4"
Depth	10.8"	Weight	37.5 lbs
Water Inlet	3/4"G Male	Water Drain	40mm (1.6")
Steam Outlets	1x30mm	Capacity	22.0 lbs/hr
Voltage	208V 3 Phase	Power	7.50 kW
Outlet Max Pressure	5 in.WC	Drain Tempering	< 140 DegF

SHOSE00030 Steam Hose Data

Inside Diameter **30mm**

DP045D30RU Distributor Pipe Data

Length **17.7 inches** Capacity **40.0 lbs/hr**

CHOSE00038 Condensate Hose Data

Inside Diameter **3/8"**

SUBMITTAL INFORMATION

System **Dryden City Hall & Public Library** Tag(s) H-2

Materials

Model	Description	Qty
UE015XW0U1	HUMISTEAM X TYPE 33 LBS/HR 208/3 STAND COND DISP CYL	1
SHOSE00030	RUBBER STEAM HOSE, 30 MM (PER FOOT)	10
DP085D30R0	DISTRIBUTORE VAPORE SERIE DP INOX L=850MM DIAM.30	1
CHOSE00038	3/8" CONDENSATE HOSE FOR USE WITH METRIC DPs (PER FOOT)	13
BL0T3A00H2USP	SPAREPART - CYLINDER BL 3PH 10-15KG/H MOD.A HB	1
PC-301	DUCT MOUNT DIFF. PRESS SW	1
DPDC112000	DUCT SENSOR TEMP. -10T60GR.C. (OUT 0-10VDC) / HUMID. RH 10-90% (OUT 0-10VDC)	1
DPDC112000	DUCT SENSOR TEMP. -10T60GR.C. (OUT 0-10VDC) / HUMID. RH 10-90% (OUT 0-10VDC)	1

Design Data

Duct Width **34"** Humidification Load **30 lbs/hr**

UE015XW0U1 Steam Humidifier Data

Height	28.0"	Width	14.4"
Depth	10.8"	Weight	37.5 lbs
Water Inlet	3/4"G Male	Water Drain	40mm (1.6")
Steam Outlets	1x30mm	Capacity	33.0 lbs/hr
Voltage	208V 3 Phase	Power	11.25 kW
Outlet Max Pressure	5 in.WC	Drain Tempering	< 140 DegF

SHOSE00030 Steam Hose Data

Inside Diameter **30mm**

DP085D30R0 Distributor Pipe Data

Length **33.5 inches** Capacity **40.0 lbs/hr**

CHOSE00038 Condensate Hose Data

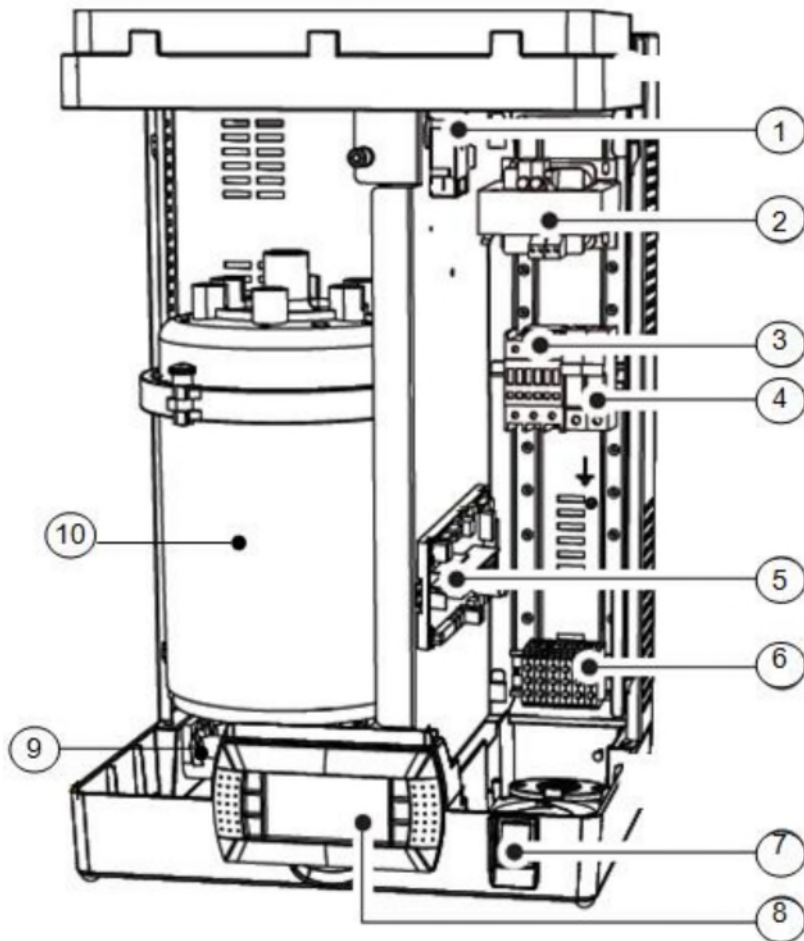
Inside Diameter **3/8"**

SUBMITTAL INFORMATION

Product Documentation for: UEX 01 to 18 kg/h Humidifier

Submittal Data

Description Of The Components

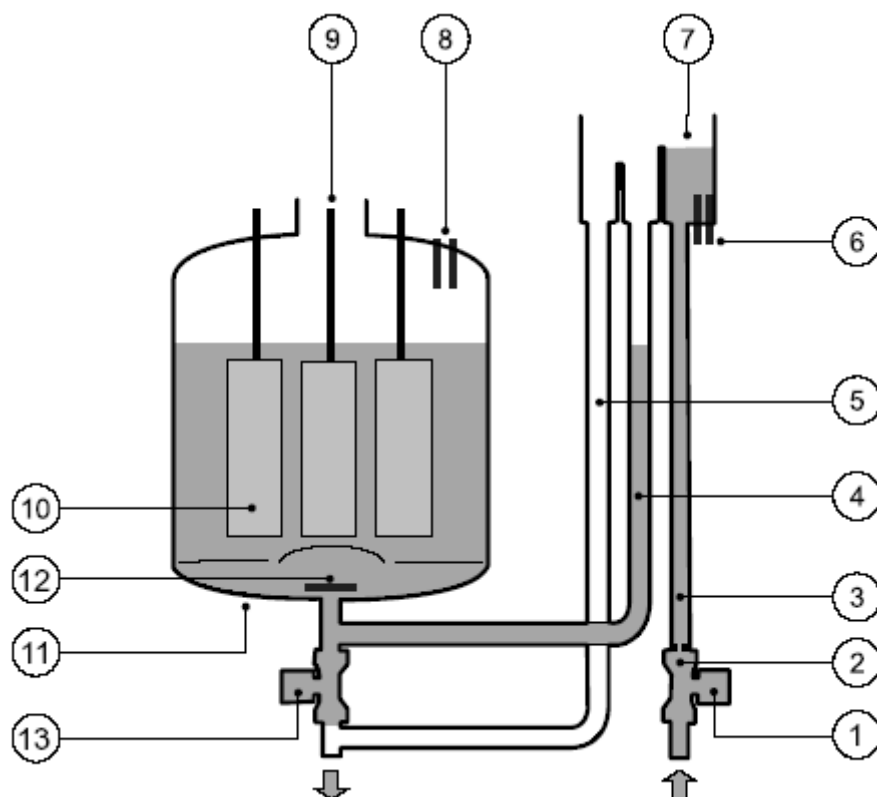


UE 001 through UE 015	
No.	Description
1	Amperage transformer
2	Power transformer
3	Power contactor
4	Fuses
5	Electronic Controller
6	Wiring terminal block
7	On/Off Switch
8	Display (can be remote mounted)
9	Drain pump & fill valve
10	Steam generator cylinder

Submittal Data

How the Humisteam Works

HumiSteam is an electrode humidifier. It produces steam for humidification by passing electrode current through the water in the steam generator cylinder between metal electrodes. There are no heater elements. Steam output is directly proportional to the conductivity of the water, and the amount of electrode immersed in the water.



On a call for humidity, the HumiSteam controller will open the water fill valve (1) and allow water to enter the system. A flow restrictor (2) prevents the unit from filling too quickly or with too much pressure. The water flows up the fill tube (3) and into the fill cup (7), where it flows over the conductivity probes (6), which feed the water conductivity back to the controller for analysis. Water then flows over the dam in the fill cup (7), which creates a 1" air gap to prevent backflow of contaminated water into the feed lines, and through the fill tube (4) and into the bottom of the steam cylinder (11).

As the water fills the cylinder, it will reach the electrodes (10) and current will begin to flow. As the water continues to fill the cylinder, the current will increase, and this is monitored by an amperage transformer placed on one of the power wires (9). When the desired current is reached, the fill valve will close (1) and the water will then begin to warm and produce steam. If the water reaches the cylinder full probes (8) prior to reaching the desired current level, the fill valve (1) will be closed to prevent overflow. If the current rises too much as the water fills the cylinder, the drain valve or pump (13) will be activated to drain away some water and reduce the current flow.

Periodically, based on the incoming water conductivity, the unit will drain some water to reduce the mineral concentration. A strainer (12) in the cylinder helps to prevent mineral debris from jamming the drain valve (13).

If there is no water in the cylinder, there will be no current flow and no steam production. The electrodes do not burn out, but they will eventually become completely coated with mineral and the cylinder will then need to be replaced or cleaned.

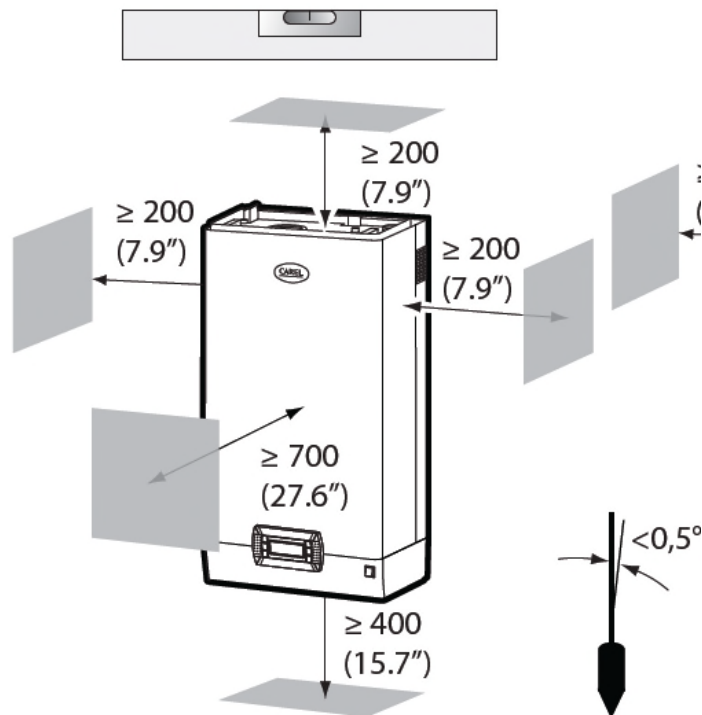
Submittal Data

Positioning

The HumiSteam has been designed for wall mounting (although it can be placed on a stand) and, since it is an atmospheric steam humidifier, should be placed close to the point where the steam will be used, to minimize the steam hose length (and condensate). **Certain clearances must be maintained around the unit:**

Distances from the wall

Models UE001 to UE018



Dimensions and weights

Models UE001 to UE018

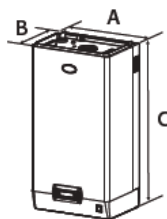


Fig. 1.a

		UE001 to UE008	UE009 to UE018
dimensions mm (in)	A	365 (14.4)	
	B	275 (10.8)	
	C	712 (28.0)	
weights kg (lb)	packaged	16 (35.3)	20 (44.0)
	empty	13.5 (29.8)	17 (37.5)
	installed*	19 (41.9)	27 (59.5)

Submittal Data

Mounting

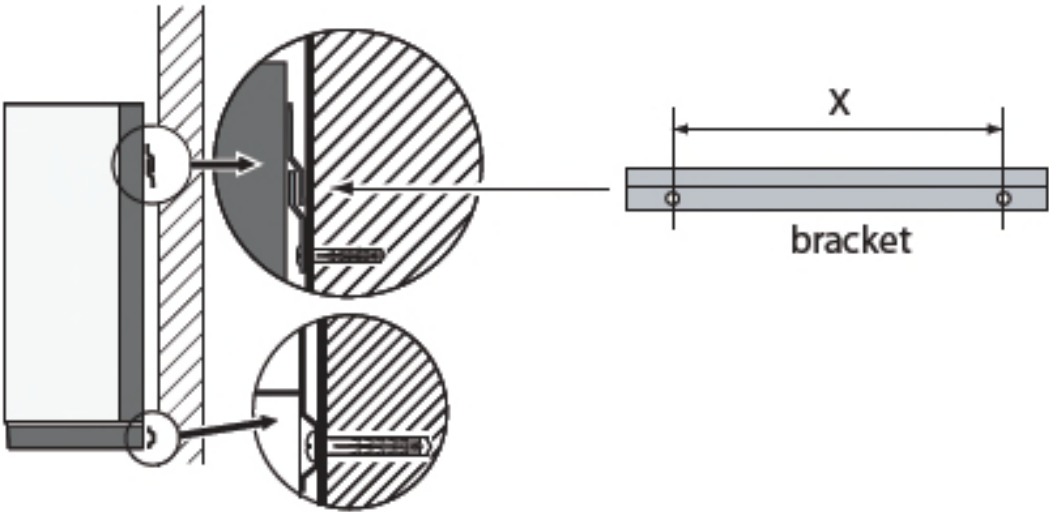
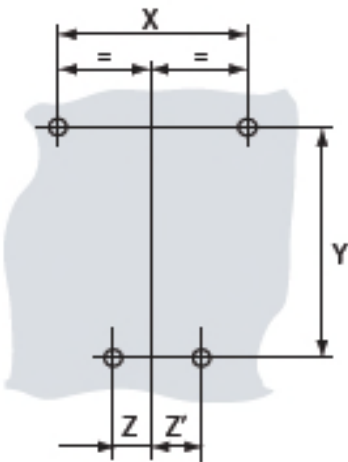


Fig. 1.e

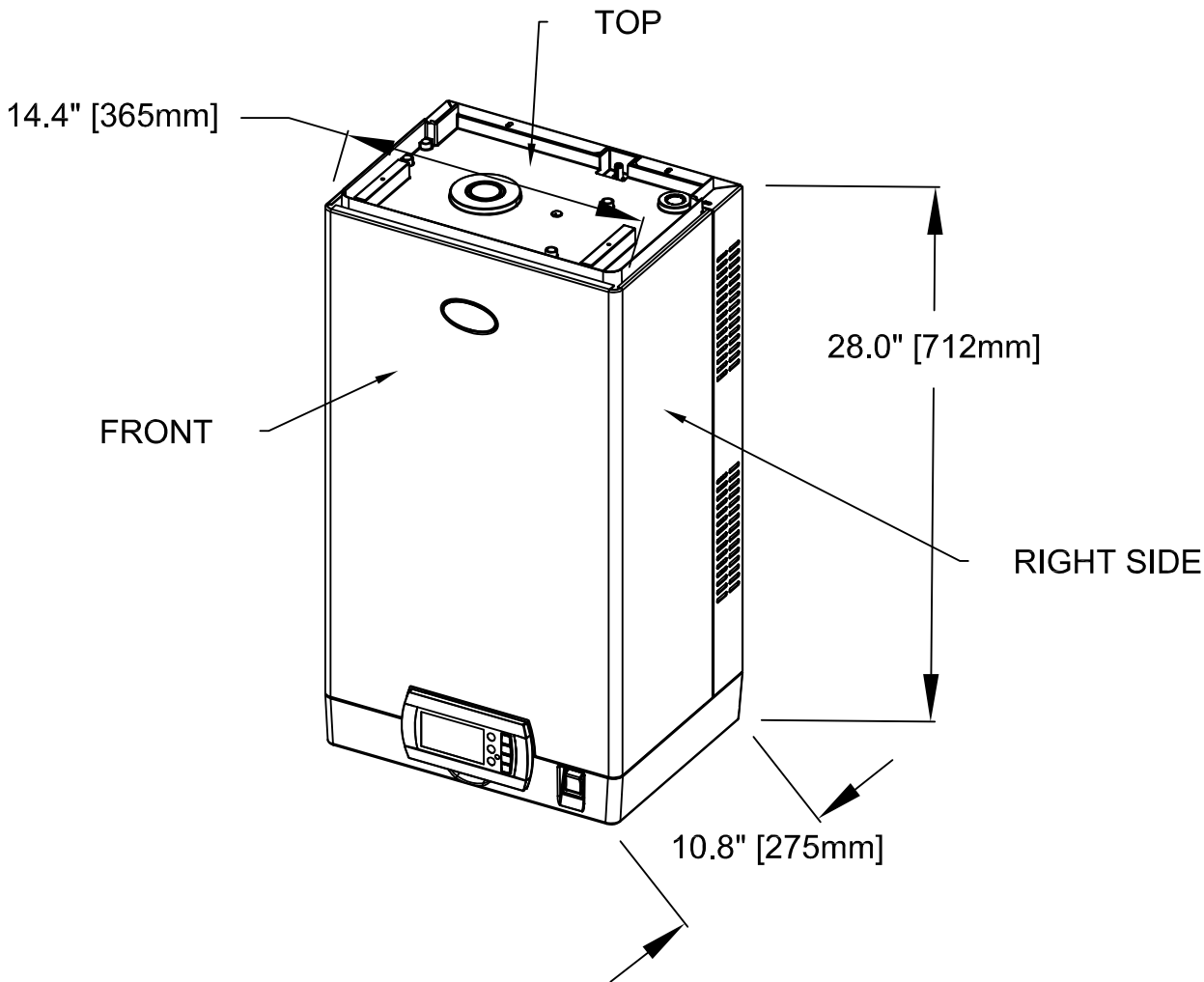
Spacing of the holes on the wall
Models UE001 to UE018

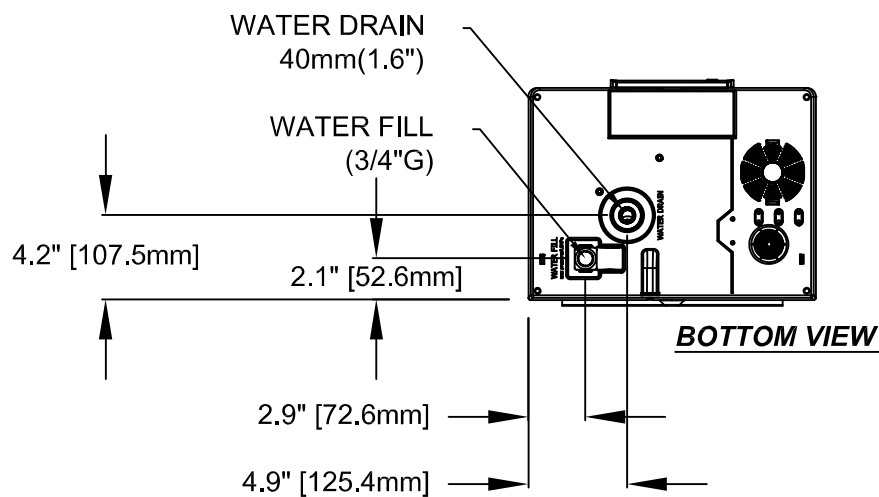
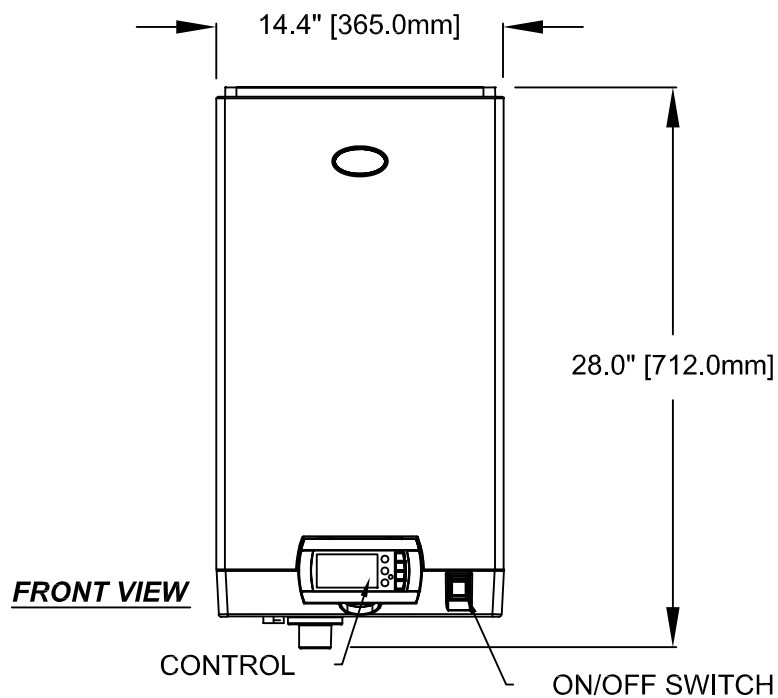
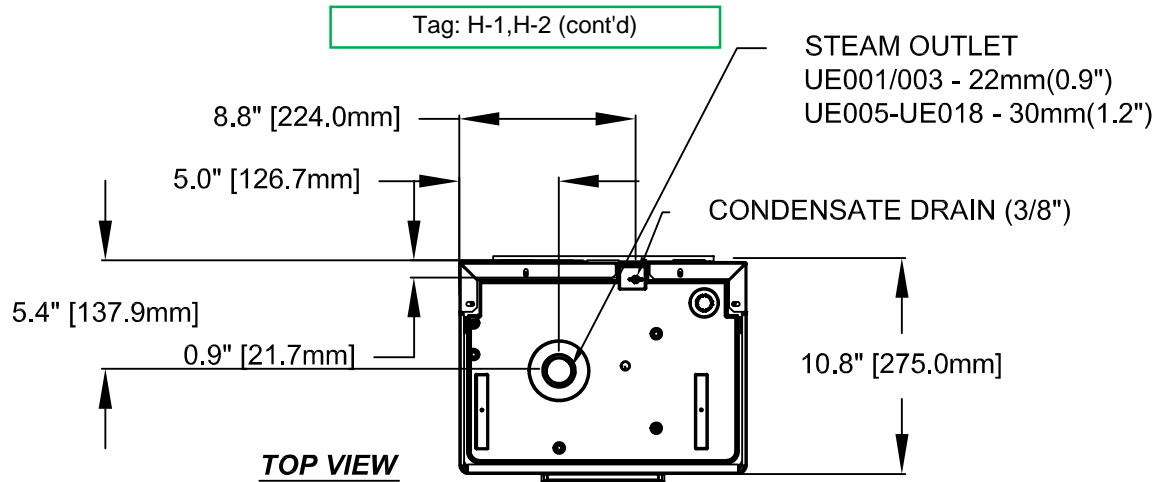


distance mm (in)	Models	
	UE001 to UE008	UE009 to UE018
X	270 (10.7)	270 (10.7)
Y	580 (22.8)	
Z	107 (4.2)	107 (4.2)
Z'	163 (6.4)	163 (6.4)

Fig. 1.f

MINIMUM UNIT CLEARANCES		
FACE:	INCH	MM
TOP	7.87	200
FRONT	27.56	700
BOTTOM	15.75	400
LEFT SIDE	7.87	200
RIGHT SIDE	7.87	200





CAREL

DESCRIPTION:

humiSteam Models 001-0018Kg/h

PAGE NUMBER:

2/2

DOCUMENT CODE:

TD_UEX_1012

REV:

R1

www.carelusa.com
www.humidifynow.com

Submittal Data

Plumbing

Water supply

The HumiSteam must be supplied with water (not softened) having the following characteristics:

Only use main water with:

- pressure between 0.1 and 0.8 MPa (14.5 and 116 PSI), temperature between 1 and 40 °C (33.8 and 104 °F) and an instant flow-rate no lower than the rated flow of the fill solenoid valve, the connection is G3/4M
- range hardness 10° to 40 °f (equal to 400 ppm of CaCO₃), conductivity: 75 to 1250 µS/cm;
- no organic compounds.

supply water characteristics	unit of measure	normal water		water with low salt content	
		min.	max.	min.	max.
Hydrogen ions (pH)		7	8.5	7	8.5
Specific conductivity at 20°C ($\sigma_{R, 20^\circ C}$)	µS/cm	300	1250	75	350
Total dissolved solids (c_R)	mg/l	(1)	(1)	(1)	(1)
Dry residue at 180°C (R_{180})	mg/l	(1)	(1)	(1)	(1)
Total hardness (TH)	mg/l CaCO ₃	100 ⁽²⁾	400	50 ⁽²⁾	150
Temporary hardness	mg/l CaCO ₃	60 ⁽³⁾	300	30 ⁽³⁾	100
Iron + Manganese	mg/l Fe+Mn	=	0.2	=	0.2
Chlorides	ppm Cl	=	30	=	20
Silica	mg/l SiO ₂	=	20	=	20
Residual chlorine	mg/l Cl-	=	0.2	=	0.2
Calcium sulphate	mg/l CaSO ₄	=	100	=	60
Metallic impurities	mg/l	0	0	0	0
Solvents, thinners, detergents, lubricants	mg/l	0	0	0	0

(1)= values depend on the specific conductivity; in general: TDS \square 0,93 * σ_R , 20 °C; R180 \square 0,65 * σ_R , 20 °C

(2) = not less than 200% of the chloride content in mg/l CL

(3) = not less than 300% of the chloride content in mg/l CL There is not reliable relationship between hardness and conductivity of the water.

Important: Important:

- do not treat the water with softeners, this may cause foam, affecting the operation of the unit;
- do not add disinfectants or anticorrosive compounds to the water, as these are potential irritants;
- the use of well water, industrial water or water from cooling circuits and, in general, any potentially chemically or bacteriologically contaminated

Supply Water Technical specifications

Water Technical Specifications	UE001	UE003	UE003	UE005	UE005	UE008	UE009	UE010	UE015	UE018						
CONNECTION	3/4" G															
temperature limits °C (°F)	1 to 40 (33.8 to 104)															
pressure limits MPa (PSI)	0.1 to 0.8 (1 to 8 bar)(14.5 to 116.0)															
instant flow-rate l/min (GPM)	0.6 (0.13)						1.1 (0.24)									
conductivity range (µS/cm)	75 to 1250															

Submittal Data

Plumbing

Water drain

- this contains the same substances dissolved in the supply water, however in larger quantities;
- it may reach a temperature of 100 °C (212 °F);
- it is not toxic and can be drained into the sewerage system.

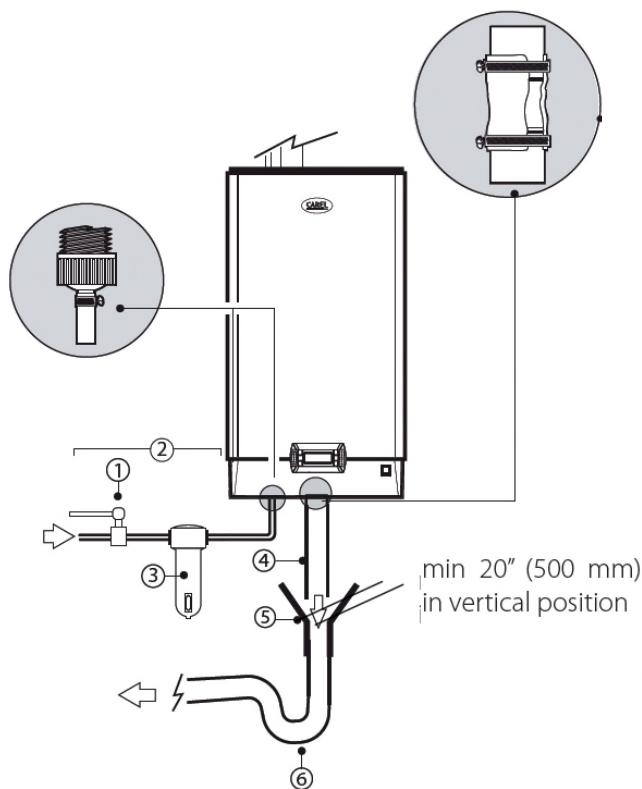
Drain tempering

The unit is fitted with a tempering valve that, opening at the same time as the drain valve, adds cold water to the drain line, thus ensuring a maximum temperature of the drain water of 60°C/140°F.

Drain Water Technical specifications

Drain Water Technical Specifications	UE001	UE003	UE003	UE005	UE005	UE008	UE009	UE010	UE015	UE018	
connection dia. mm (in)	40 (1.6)										
typical temperature °C (°F)	≤100 (212)										
Drain tempering temperature °C (°F)	≤ 60/ (140)										
instant flow-rate (l/min) (GPM)	7 (1.85)										
instant flow-rate of the drain tempering valve	12 (3.2)										

Models UE001 to UE018



1. Install a manual valve upstream of the installation (to be able to shut off the water supply)
2. Connect the humidifier to the water supply. On models UE001 to UE018, use a hose with 3/4" G fittings (see par. "Technical specifications", compatible CAREL hose: code FWH3415000).
3. Install a mechanical filter to trap any solid impurities (to be connected downstream of the manual valve)
4. Connect a section of non-conductive pipe or hose for draining (resistant to temperatures of 100 °C (212 °F) and with a minimum inside diameter of 40 mm/1.6" up to UE018).
5. Prepare a funnel to interrupt continuity in the drain line funnel for required air gap, can be composed of a piping reducer
6. Connect a drain trap to prevent the return of bad odors (minimum inside diameter of 40 mm/1.6" up to UE018)

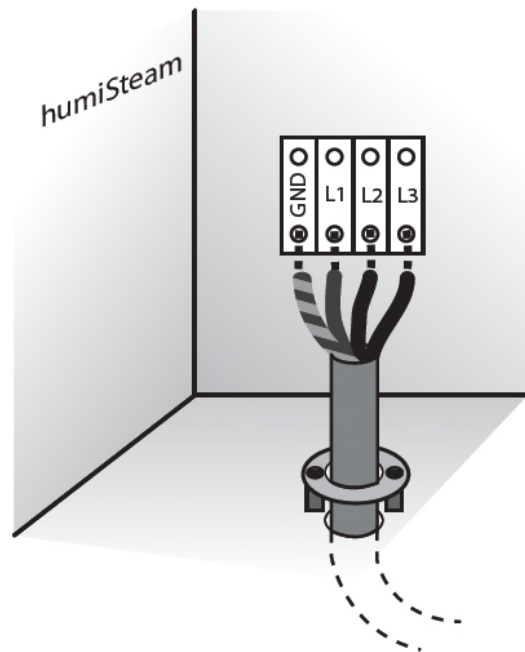
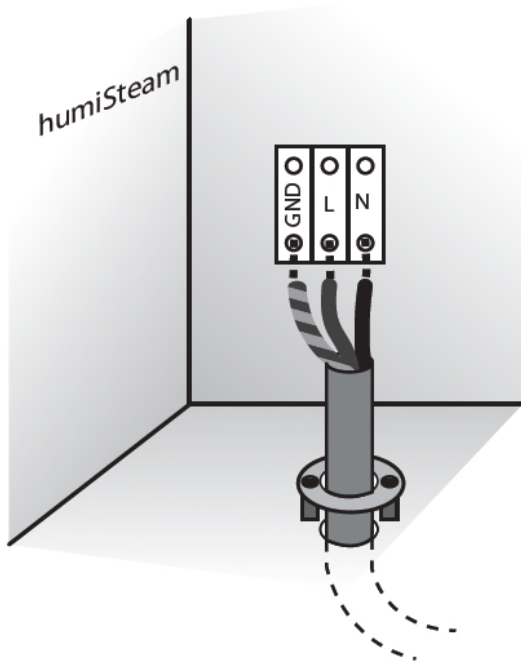
Submittal Data

Power wiring

The HumiSteam units contain field wiring terminals for connection of high power.

All wiring must be in accordance with local, state and national electric codes.

NOTE: to avoid unwanted interference, the power cables should be kept separate from any control wiring.



Submittal Data

HumiSteam models and electrical specifications

			power supply			nominal specifications				
model	steam production ^(2,4) (kg/hr) (lbs/hr)	power ⁽²⁾ (kW)	code	voltages ⁽¹⁾ (V - type)	current ⁽²⁾ (A)	TAM configuration ⁽⁵⁾		cable ⁽³⁾ (mm ²) / (AWG)	recommended External fuses sizes ⁽³⁾ (A / type)	wiring diagram (Fig.)
UE001	1.5 / 3.3	1.1	U	208 - 1~	5.4	13.a	100	1.5 / 16	10 A / fast blow	12.1
			D	230 - 1~	4.9	13.a	100	1.5 / 16	10 A / fast blow	12.1
UE003	3.0 / 6.6	2.2	U	208 - 1~	10.8	13.d	300	2.5/14	16 A / fast blow	12.1
			D	230 - 1~	9.8	13.d	300	2.5/14	16 A / fast blow	12.1
			W	208 - 3~	6.2	13.a	100	1.5 / 16	10 A / fast blow	12.2
			K	230 - 3~	5.6	13.a	100	2.5/14	16 A / fast blow	12.2
			M	460 - 3~	2.8	13.d	100	1.5 / 16	10 A / fast blow	12.2
UE005	5.0 / 11.0	3.7	U	208 - 1~	18.0	13.e	300	6/10	32 A / fast blow	12.1
			D	230 - 1~	16.3	13.e	300	6/10	32 A / fast blow	12.1
			W	208 - 3~	10.4	13.c	300	2.5/14	16 A / fast blow	12.2
			K	230 - 3~	9.4	13.c	300	2.5/14	16 A / fast blow	12.2
			M	460 - 3~	4.7	13.a	100	1.5 / 16	10 A / fast blow	12.2
			N	575 - 3~	3.8	13.a	100	1.5 / 16	10 A / fast blow	12.2
UE008	8.0 / 17.6	6.0	W	208 - 3~	16.7	13.c	300	6/10	32 A / fast blow	12.2
			K	230 - 3~	15.1	13.c	300	6/10	32 A / fast blow	12.2
			M	460 - 3~	7.5	13.a	100	2.5/14	16 A / fast blow	12.2
			N	575 - 3~	6.0	13.a	100	2.5/14	16 A / fast blow	12.2
UE009	9.0 / 19.8	6.7	U	208 - 1~	31.37	13.a	500	16/6	50A / fast blow	12.1
			D	230 - 1~	29.3	13.a	500	10/8	40 A / fast blow	12.1
UE010	10.0 / 22.0	7.5	W	208 - 3~	18.8	13.c	300	6/10	32 A / fast blow	12.2
			K	230 - 3~	10.8	13.c	300	2.5/14	16 A / fast blow	12.2
			M	460 - 3~	9.4	13.a	100	2.5/14	16 A / fast blow	12.2
			N	575 - 3~	7.5	13.d	300	2.5/14	16 A / fast blow	12.2
UE015	15.0 / 33.0	11.2	W	208 - 3~	31.2	13.c	500	10/8	40 A / fast blow	12.2
			K	230 - 3~	28.2	13.c	500	16 / 0	32 A / fast blow	12.2
			M	460 - 3~	14.1	13.a	300	10/8	20 A / fast blow	12.2
			N	575 - 3~	11.3	13.a	300	4 / 10	16 A / fast blow	12.2
UE018	18 / 39.7	13.5	M	460 - 3~	16.9	13.a	500	6 / 10	32 A / fast blow	12.2
			N	575 - 3~	13.57	13.a	500	6 / 10	32 A / fast blow	12.2

1. Tolerance allowed on the rated mains voltage: -15%, +10%;
2. Tolerance on the rated values: +5%, -10% (EN 60335-1)
3. Recommended values refer to laying PVC or rubber cables in closed conduits, 20 m (65.6 feet) long; use the local standards, or whichever is more restrictive
4. Rated max instant steam production: the average steam production may be affected by external factors, such as: ambient temperature, water quality, steam distribution system
5. Refer to the wiring diagrams to verify the data are not absolute and if these differ from local standards, the latter must prevail.

Submittal Data

Control Wiring

A typical humidifier control system includes a wall or return duct sensor or controller, a high limit duct humidistat, and an air-proving switch. Placement of these devices is critical to proper operation of the overall system.

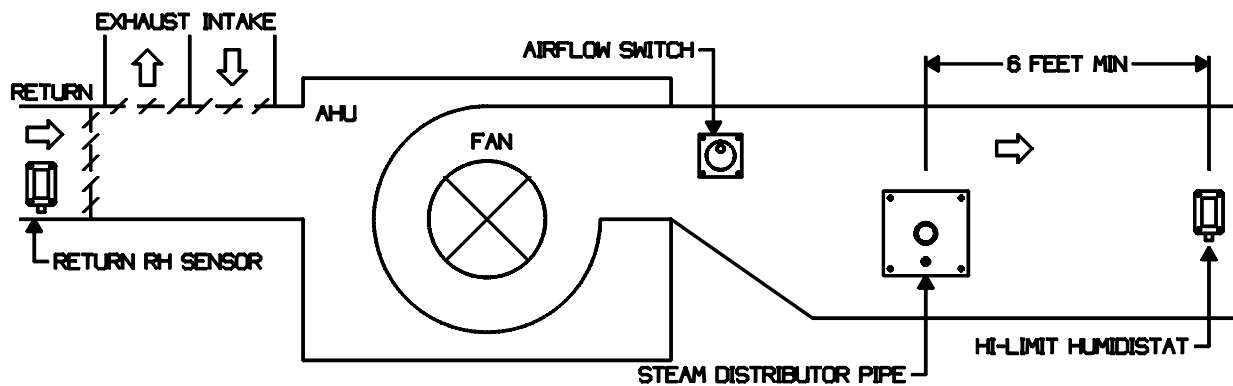
Controls Placement

(see following diagram)

The return air RH sensor must always be located BEFORE any outside air intake, in order to insure accurate sensing of the air from the space. Alternatively, a room RH sensor or humidistat can be used. Room sensors should be located on an inside wall or post and should not be hit by any discharge air streams from ducts. In a 100% outside air system, the RH sensor may be placed in the supply duct, at least 10 feet down stream of the distributor pipe to act as both hi-limit and control.

The airflow switch must be positioned to accurately open on a loss of airflow, to prevent the humidifier from running when there is no air to absorb the moisture.

The hi-limit humidistat must be positioned far enough downstream of the steam distributor pipe(s) to prevent it from getting wet, but still allow it to accurately prevent over humidification of the duct that could result in condensation.



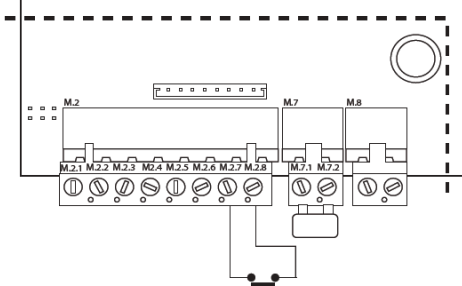
Submittal Data

Controls wiring

Depending on the type of signal used, steam production can be enabled and/or managed in different ways.

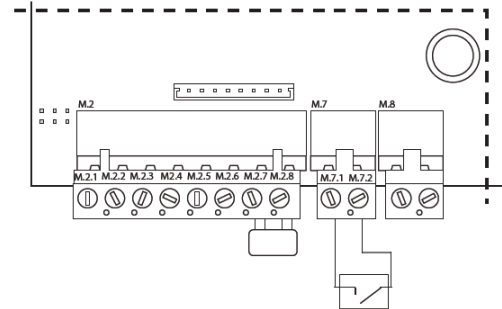
REMOTE CONTACT (ON/OFF action)

- jumper outputs M7.1 and M7.2
- connect outputs M2.7 and M2.8 to a remote contact (e.g.: switch, timer,...)



HUMIDISTAT (ON/OFF action)

- connect outputs M7.1 and M7.2 to a humidistat
- jumper outputs M2.7 and M2.8



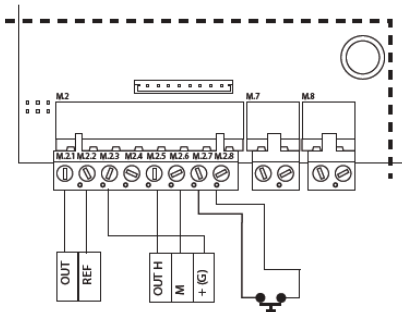
PROPORTIONAL EXTERNAL CONTROLLER WITH CAREL LIMIT PROBE

- jumper outputs M2.7 and M2.8 or connect to a remote contact
- connect the limit probe to terminals M2.3, M2.5 and M2.6
- The humidifier can be programmed to receive one of the following signals:

Voltage: 0 to 1 Vdc, 0 to 10 Vdc, 2 to 10V

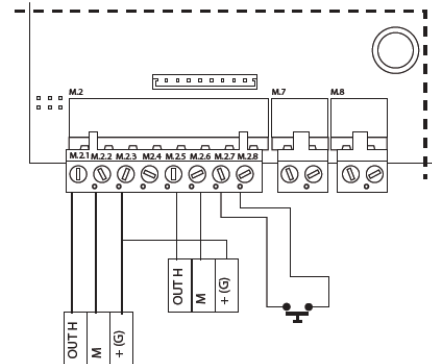
Current : 0 to 20 mA, 4 to 20 mA

Potentiometric: 135-1000 ohm, 0-135 ohm

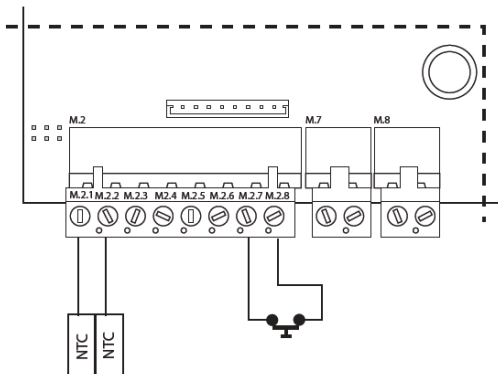


CONTROL WITH CAREL MAIN PROBE AND LIMIT PROBE

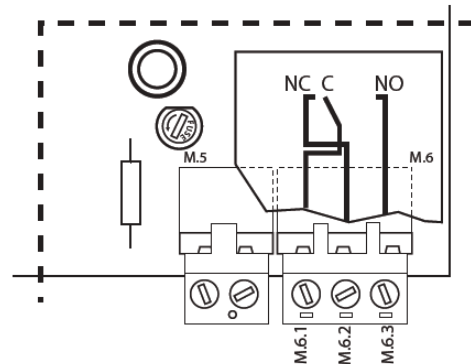
- jumper outputs M2.7 and M2.8 or connect to a remote contact
- connect the main probe to terminals M1.2, M2.2 and M2.3
- connect the limit probe to terminals M2.3, M2.5 and M2.6



CAREL NTC probe connection:



Contact available for the remote signalling of one or more alarms.



Submittal Data

If non-CAREL probes are used, check:

- voltage signal: 0 to 1 Vdc, 0 to 10 Vdc, 2 to 10 Vdc, terminal M2.1 (GND: M2.2);
- current signal: 4 to 20, 0 to 20 mA, terminal M2.4 (GND: M2.6).

In addition, depending on the type of power supply:

- +15 V, terminal M2.3;
- + 1 Vdc 135 ohm, terminal M2.4.

INPUT PROBE CONFIGURATION (pin strip connectors JS5, JS6)

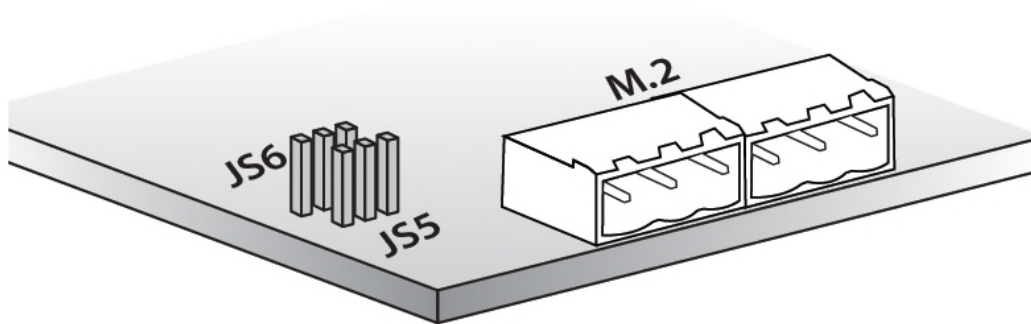
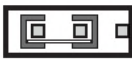





Fig. 4.m (detail of electronic board, in the humidifier electrical compartment)

pin strip	configuration	position	
		0 to 10 Vdc 2 to 10Vdc	0 to 1 Vdc, 4 to 20/0 to 20 mA, NTC probes
JS5	main probe	 basic configuration	
JS6	limit probe	 basic configuration	

Submittal Data

technical specifications		UEX models											
		UE001*	UE003*	UE003**	UE005*	UE005**	UE008**	UE009*	UE010**	UE015**	UE018**		
steam													
connection dia. mm (in)	208-230 V	22/30 (0.9/1.2)		30 (1.2)									
	460 -575V	22/30 (0.9/1.2)		30 (1.2)									
outlet pressure limits Pa (PSI) (* W.C.)		0/1500 (0/0.218) (6.0)		0/1300 (0/0.188) (5.2)		0/1350 (0/0.196) (5.4)							
supply water													
connection		3/4" G											
temperature limits °C (°F)		1 to 40 (33.8 to 104)											
pressure limits MPa (PSI)		0.1 to 0.8 (1 to 8 bar) (14.5 to 116.0)											
hardness limits (°fH)		≤ 40											
instant flow-rate l/min (GPM)		0.6 (0.13)				1.1 (0.24)							
conductivity range (µS/cm)		75 to 1250											
drain water													
connection dia. mm (in)		40 (1.6)											
typical temperature °C (°F)		≤100 (212)											
Drain tempering temperature °C (°F)		≤ 60/ (140)											
instant flow-rate (l/min) (GPM)		7 (1.85)											
instant flow-rate of the drain tempering valve		12 (3.2)											
environmental conditions													
ambient operating temp. °C (°F)		1 to .40 (33.8 to 104)											
ambient operating humidity (% rH)		10 to 60											
storage temperature °C (°F)		-10 to 70 (14 to 158)											
storage humidity (% rH)		5 to 95											
index of protection		IP20											
electronic controller													
controller		UEX*****											
auxiliary voltage/frequency (V - Hz)		24 / 50/60											
maximum auxiliary power (VA)		90											
probe inputs (general features)		can be selected for the following signals: 0 to 1 Vdc, 0 to 10 Vdc, 2 to 10 Vdc, 0 to 20 mA, 4 to 20 mA, NTC, 135-1000 ohm, 0-135 ohm. input impedance: 60 kΩ with: 0 to 1 Vdc, 0 to 10 Vdc, 2 to 10 Vdc signals 50 Ω with: 0 to 20 mA, 4 to 20 mA signals											
active probe power supply (general features)		15 Vdc. 100 mA protected against short-circuits +1 Vdc with 135 Ω load											
alarm relay outputs(general features)		250 V 5 A (2 A) - type of action-microswitching 1C											
remote enable input (general features)		voltage-free contact; max. resistance 50 Ω; Vmax= 24 Vdc; Imax= 6 mA											
output													
instant steam production ⁽¹⁾ kg/h (lb/h)		1.5 (3.3)	3.0 (6.6)	3.0 (6.6)	5.0 (11)	5.0 (11)	8.0 (17.6)	9.0 (19.8)	10.0 (22)	15.0 (33)	18.0 (39.7)		
power input at rated voltage (kW)		1.12	2.25	2.5	3.75	3.75	6.0	6.75	7.5	11.25	13.5		



Tag: H-1,H-2 (cont'd)

**Product Documentation for: Distributor Data
Sheet_20130918**



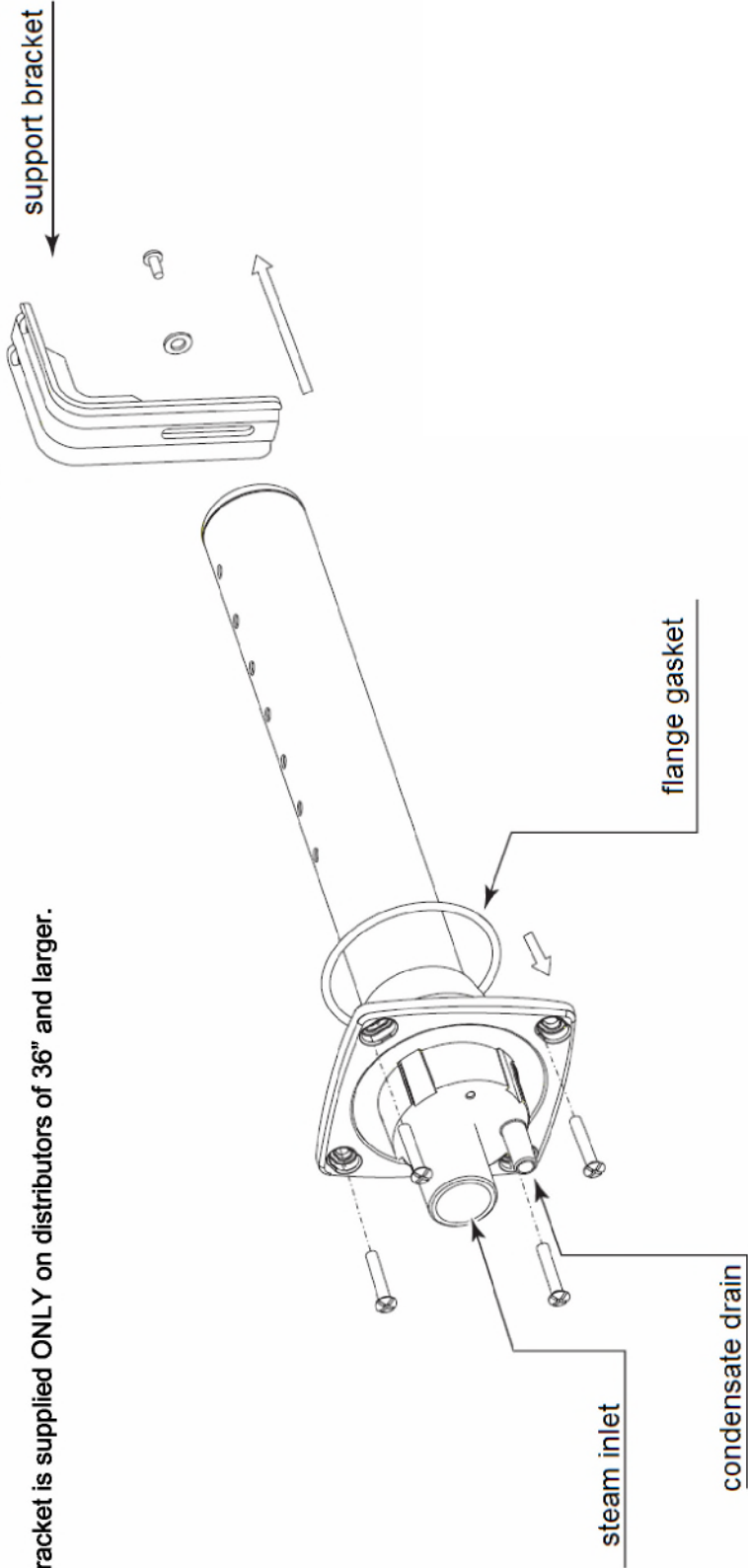
The new steam hoses are designed with an internal support wire to avoid kinking or collapsing. This new hose is more rigid and easier to support. It also more closely matches the steam cylinder outlets and new distributor pipe inlets, reducing the possibility of leaks. The hose is also rated for food use, which makes it acceptable to food and pharmaceutical applications. The composition is EPDM rubber with a polyester braid, containing no silicone.

Steam Hose / Duct Steam Distributors

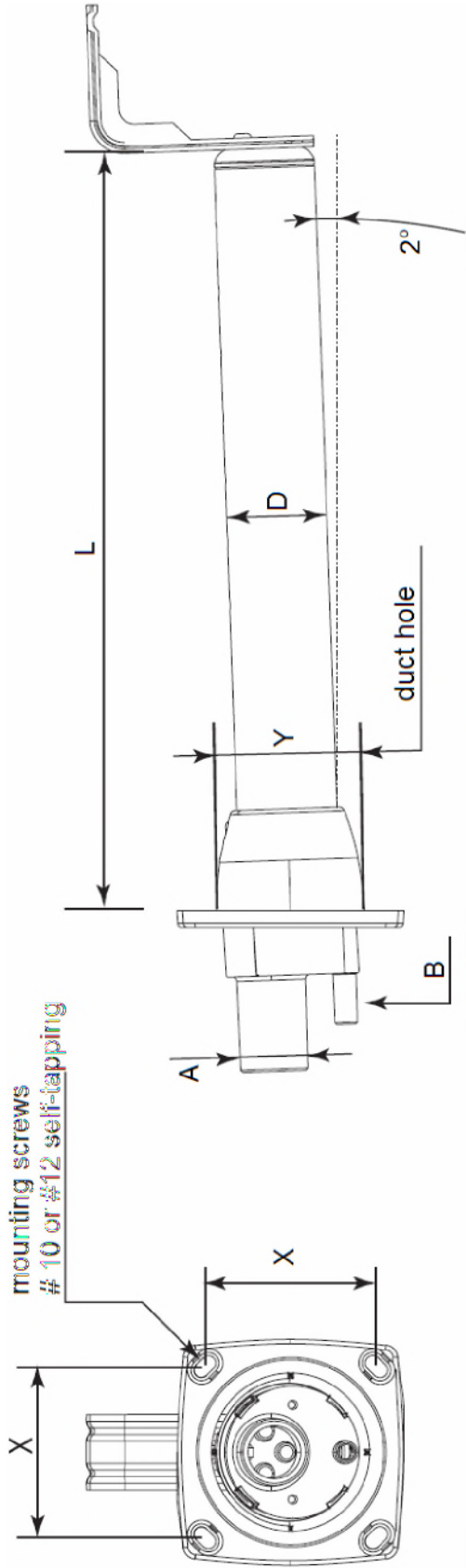
Ordering Code	Description	I.D. mm	I.D. inches	I.D. mm	I.D. inches
CHOSE00516	Rubber condensate hose, 5/16"	7.94	0.31	15.9	0.63
CHOSE00038	Rubber condensate hose, 10 mm	9.52	0.38	17.5	0.69
SHOSE00022	Rubber steam hose, 22 mm	22	0.87	31.5	1.24
SHOSE00030	Rubber steam hose, 30 mm	30	1.18	40.5	1.59
SHOSE00040	Rubber steam hose, 40 mm	40	1.57	52	2.05

Steam Hose / Duct Steam Distributors

NOTE: Support bracket is supplied ONLY on distributors of 36" and larger.



Steam Hose / Duct Steam Distributors



Distributor Model (Diameter)		
	Dimension mm (inches)	
A	22 (0.86)	30 (1.18)
B	10 (.38)	10 (.38)
D	35 (1.38)	45 (1.77)
L	See Table	
X	68 (2.68)	77 (3.03)
Y	58 (2.28)	68 (2.68)

Distributor	L (mm (inches))
DP030D22RU	299 (11.77)
DP035D22R0	332 (13.07)
DP045D22R0	438 (17.24)
DP060D22R0	597 (23.5)
DP085D22R0	835 (32.87)
DP030D30RU	299 (11.77)
DP035D30R0	343 (13.5)
DP045D30R0	427 (16.81)
DP060D30RU	599 (23.58)
DP060D30R0	596 (23.46)
DP085D30R0	850 (33.46)
DP105D30R0	1047.5 (41.24)
DP125D30R0	1244.8 (49)
DP165D30R0	1639 (64.53)
DP060D40RU	599 (23.58)
DP085D40R0	833.4 (32.81)
DP105D40R0	1014.7 (39.95)
DP125D40R0	1221.9 (48)
DP165D40R0	1636.3 (64.42)
DP205D40R0	2024.8 (79.72)

TECHNICAL SHEET of STEAM DISTRIBUTORS DP*D*R0

Name of product: Steam Distributor
(part number DP*D*R0)



Color: Grey/Black

Temperature Range: Working temperature: Max 105°C (221°F)

Materials
Pipe: stainless steel AISI 304;
Flange: PPS (Polyphenylene Sulfide), Ryton®
o-ring (on the flange): silicone
o-ring (on the pipe): EPDM

Product Information: The wide range of linear steam distributors for ducts in the "DP" series is made up of perforated stainless steel pipes supported by a fastening bracket made from Ryton®. This material combines excellent mechanical characteristics with extraordinary resistance to high temperatures.

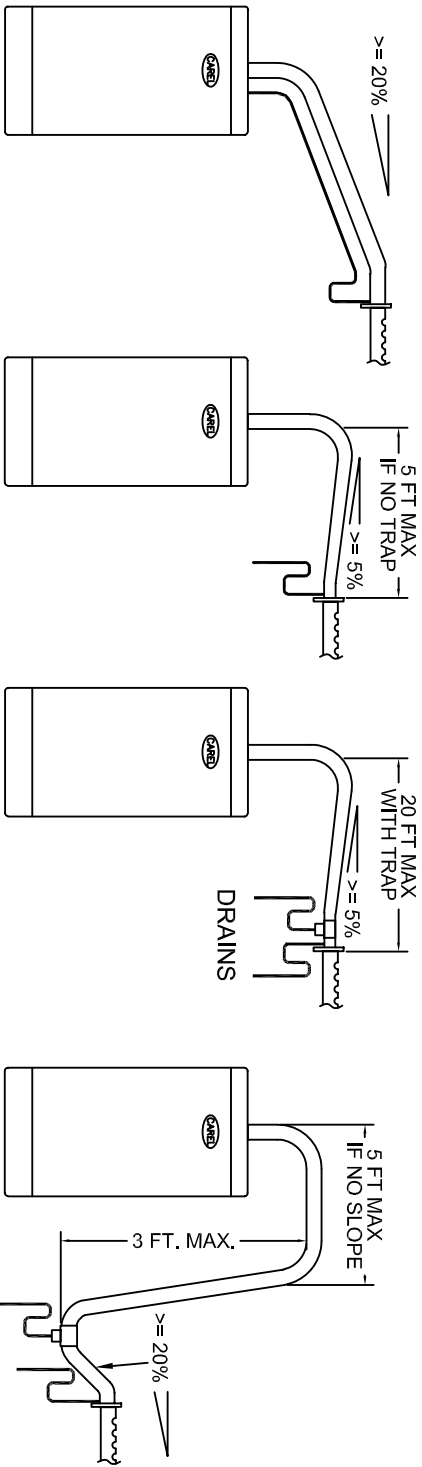
The fastening bracket allows the steam distributor to be fastened vertically to a wall, guaranteeing the correct incline of the distributor for draining condensate.

The stainless steel linear steam distributors are available in 3 different diameters (35, 45 and 60mm), which couple respectively to the 22, 30 and 40mm diameter steam hoses used on the entire range of CAREL humidifiers.

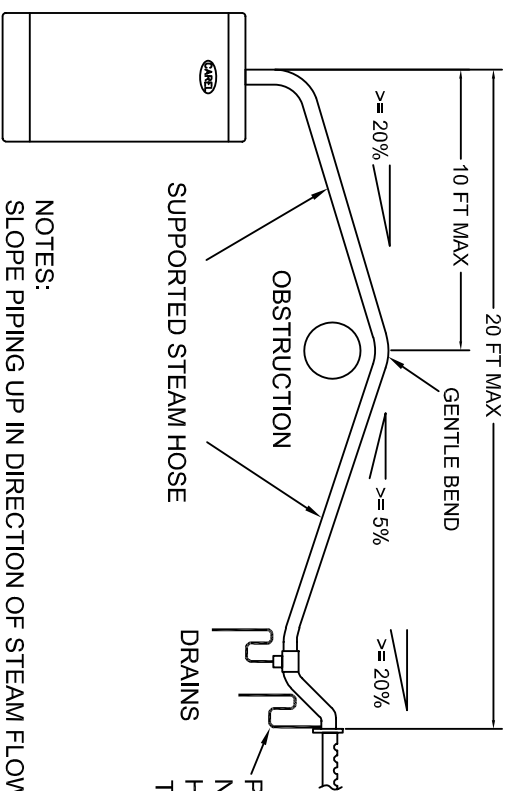
Applications: Designed for steam distribution into AHU or duct. These distributors are designed to release steam in a uniform manner along the entire length, so as to minimise non-wetting distance.

SUBMITTAL INFORMATION

Product Documentation for: DP_62U034A001 Model



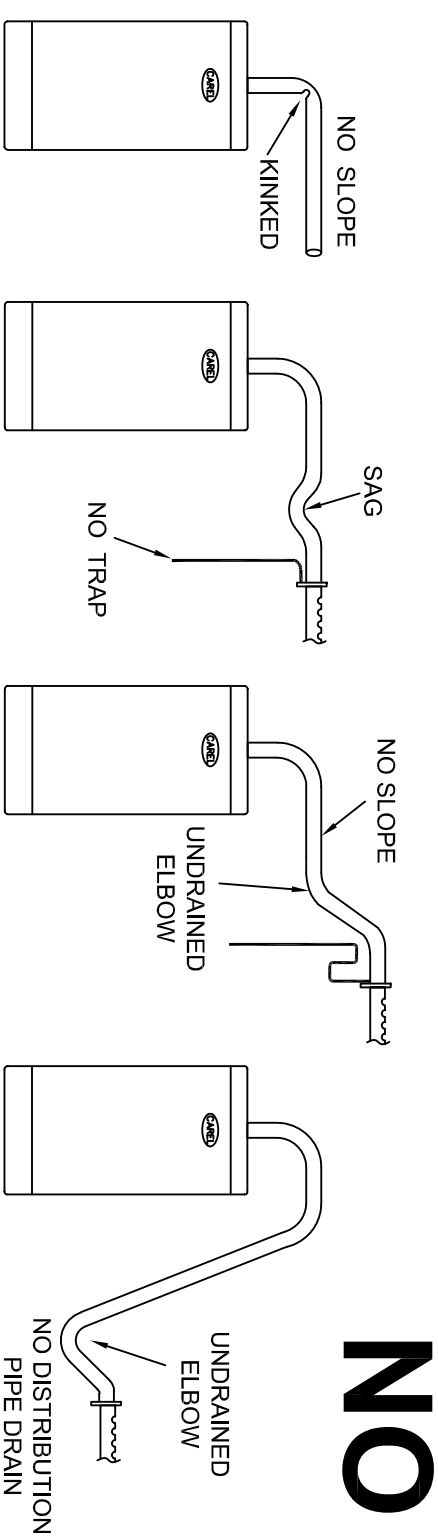
TYPICAL
INSTALLATION WHEN
UNIT IS ABOVE THE
DISTRIBUTOR PIPE
DRAINS



NOTE:
HEIGHT OF TRAPS MUST BE GREATER
THAN THE DUCT STATIC PRESSURE

YES

NOTES:
SLOPE PIPING UP IN DIRECTION OF STEAM FLOW AT 20% OR GREATER, WHICH MEANS 2 1/2" PER FOOT
SLOPE PIPING DOWN IN THE DIRECTION OF STEAM FLOW AT 5% OR GREATER, WHICH MEANS 3/4" PER FOOT
MAX. LENGTH OF RUBBER STEAM HOSE IS 20 FT.



NO

SUBMITTAL INFORMATION

Product Documentation for: PC-301 Sensor

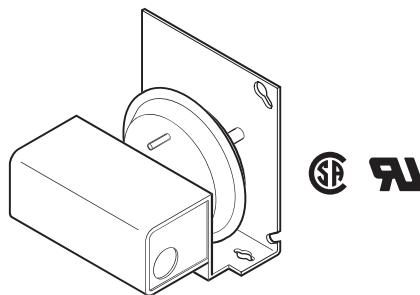
PC-301

Two-Position Air Flow Pressure Switch

This switch provides low or line voltage control of pressure for air and non-combustible gases. It controls static pressure, total pressure, or differential total pressure.

Features:

- High/low pressure taps.
- Adjustable from 0.07 to 1 in. (1.8 to 25.4 mm) W.C.
- Universal mounting.
- Agency approved.



Model Chart

Model No.	Description
PC-301	Refer to Specifications.

Specifications

Setpoint

Factory setting	0.07 in. (1.8 mm) W.C.
Field adjustment	0.07 to 1 in. (1.8 to 25.4 mm) W.C.
Sensing element	Neoprene diaphragm.
Differential	0.04 in. (1 mm) W.C. at minimum setpoint to 0.1 in. (3 mm) W.C. at maximum setpoint.

Environment

Ambient temperature limits	Shipping and storage: -40 to 140°F (-40 to 60°C). Operating: 35 to 140°F (2 to 60°C).
Humidity	5 to 95% RH, non-condensing.
Locations	NEMA Type 1.
Maximum pressure	12 in. (305 mm) W.C.

Electrical switch

Type	Snap action SPDT.
Ratings	Refer to Maximum Electrical Switch Ratings Table.
Connections	Refer to Figure 1.
Wiring	Coded screw terminals.
High pressure taps	One barbed fitting for 3/8 in. O.D. plastic tubing.
Low pressure taps	One barbed fitting for 1/4 in. O.D. plastic tubing.

Case All metal with 1/2 in. conduit opening.

Mounting In vertical position on any surface free of vibration.

Dimensions 6-3/8 H x 4-3/4 W x 4-3/8 D in. (162 x 121 x 111 mm).

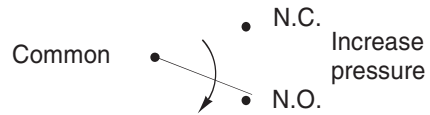
General Instructions Refer to F-16160.

Maximum Electrical Switch Ratings.

Vac	Full Load Amps	Locked Rotor Amps	Pilot Duty (VA)	Non-Inductive Amps
24 V	—	—	60	—
120 V	6.25	37.5	300	
240 V	3.1	18.6		
277 V	2.7	16.2		10

Accessories

Model No.	Description
AP-302	Duct static pressure sensing tip for pressure 1 in. (25.4 mm) W.C. and up.
AP-305	Duct static pressure sensing tip for pressure 0.01 in. (0.3 mm) W.C. and up.
AT-208	Duct mounting bracket for probes other than AP-302 and AP-305.

Typical Applications

N.O. makes on increase of pressure.

Figure 1 Switch Action for PC-301 Switch.

SUBMITTAL INFORMATION

Product Documentation for: TD_DPWC112 and DPDC112

DPWC112000 and DPDC112000



1 and 2 series	3 Type	4 Measurement	5 Humid. Sensor	6 Temp. Sensor	7 Type Output	8 and 9 Custom	10 Packaging
----------------	--------	---------------	-----------------	----------------	---------------	----------------	--------------

1 and 2 Series: DP (Digital sensors)

3- Type: W = Wall P = Industrial environment D = Duct

4- Measurement: T = Temperature H = Humidity C = Temperature and Humidity.

5- Type of humidity sensor: 0 = Not present; 1 = 10 to 90% rH; 2 = 0 to 100% rH.

6- Type of temperature sensor: 0 = Not present; 1 = NTC.

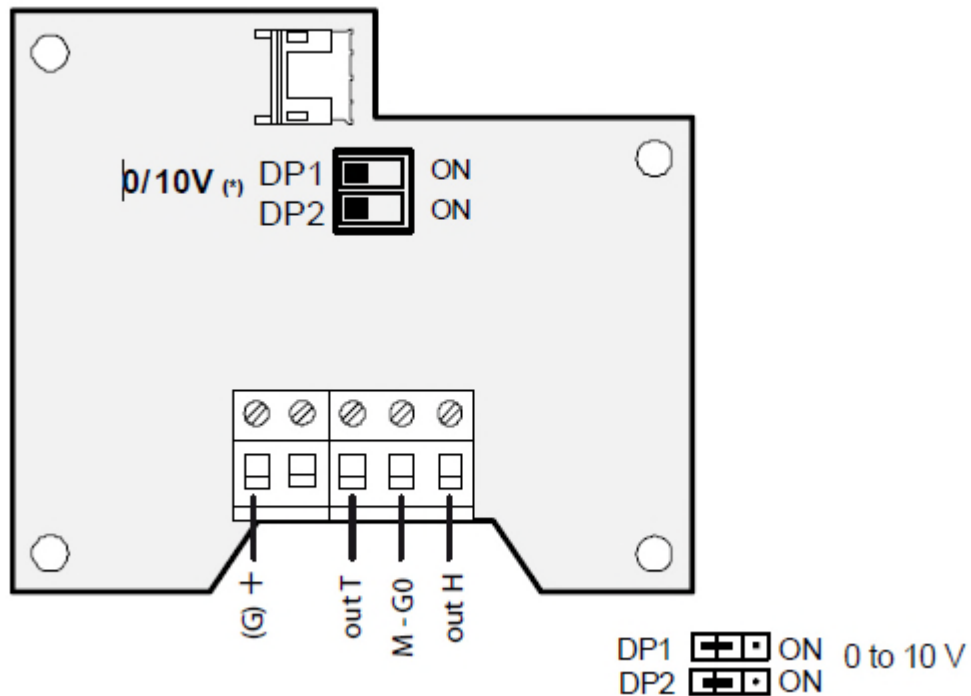
7- Type of output: 0 = 0 to 1 Vdc or 4 to 20 mA output; 1 = 0 to 1 V or 4 to 20 mA and NTC resistive output; 2 = 0 to 10 Vdc output; 3 = Modbus/Carel RS485 serial output, not optically-isolated; 4 = Modbus/Carel optically-isolated RS485 serial output; 5 = 0 to 10 V and NTC resistive output.

8 and 9 Custom features:

10- Packaging: 0 = Single; 1 = Multiple; N = Neutral; * = Customized

DP SERIES	Power supply: 18 to 32 Vdc / 12 to 24 Vdc, 0 to 10 Vdc output
DPWC112000	"ROOM" Temperature (-10T60 °C) and humidity (10 to 90% rH)
DPDC112000	"DUCT" Temperature (-10T60 °C) and humidity (10 to 90% rH)

CONNECTION



KEY;

+ (G) = power supply (12 to 24 Vac or 8 to 32 Vdc).

out T = temperature output

M(G0) = reference for both power supply and outputs

out h = humidity output 0 to 10 Vdc

Dimensions

