



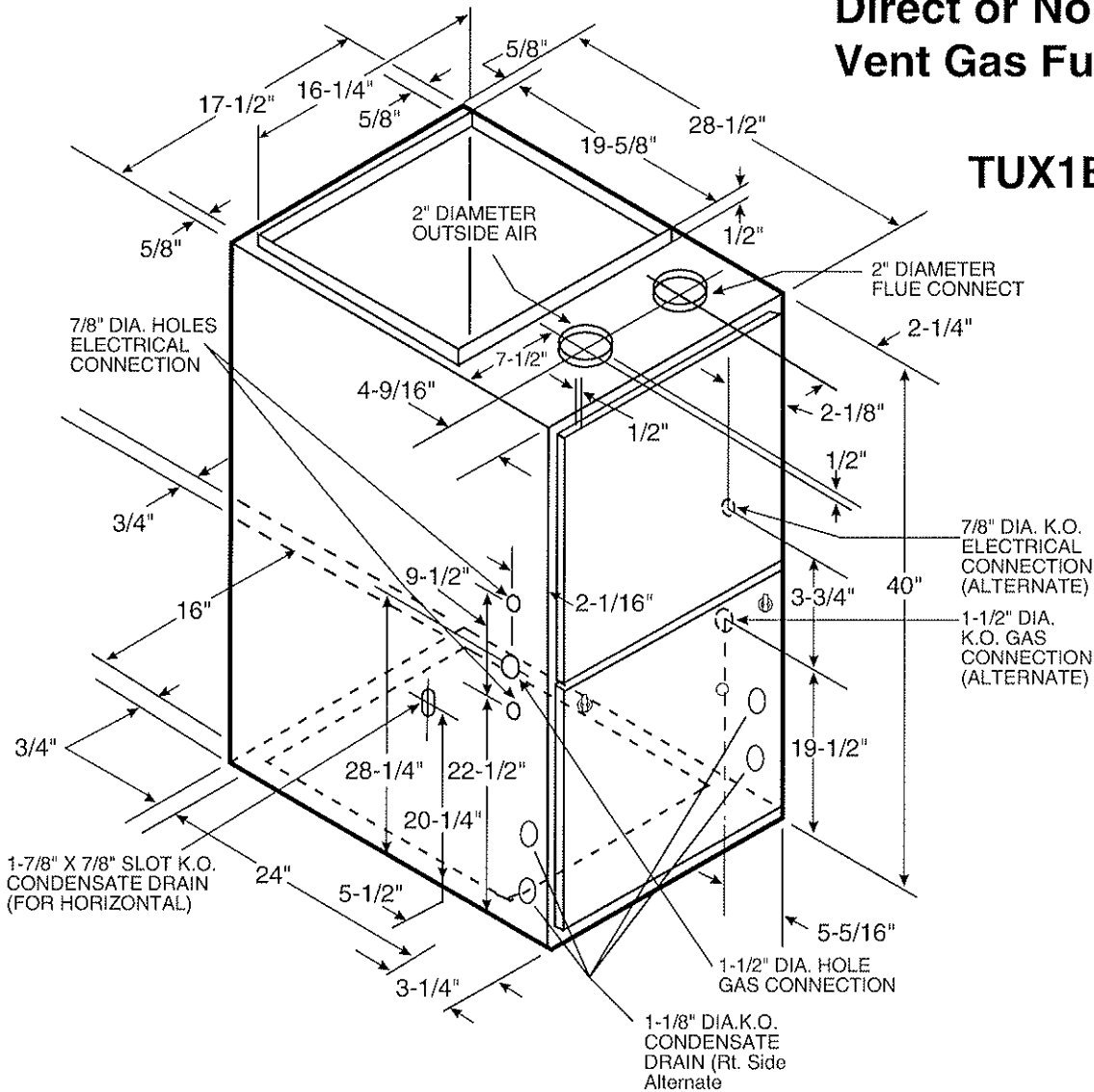
TUX1B060-SUB-2B

TAG: _____

SUBMITTAL

Upflow / Horizontal Direct or Non-Direct Vent Gas Furnace

TUX1B060A9361A



FURNACE AIRFLOW (CFM) VS. EXTERNAL STATIC PRESSURE (INS. w.g.)										
MODEL	SPEED TAP	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
TUX1B060A9361A	4 - HIGH - Black	1394	1359	1314	1260	1196	1122	1038	945	843
	3 - MED-HIGH - Blue	1250	1232	1202	1160	1106	1040	962	873	771
	2 - MED-LOW - Yellow	1102	1092	1069	1034	986	925	852	766	668
	1 - LOW - Red	957	944	922	891	853	806	750	686	614

CFM VS. TEMPERATURE RISE						
MODEL	Cubic Feet Per Minute (CFM)					
	900	1000	1100	1200	1300	1400
TUX1B060A9361A	56	50	45	42	39	36

General Data ①

TYPE	Upflow / Horizontal
RATINGS ②	
Input BTUH	60,000
Capacity BTUH (ICS) ③	56,000
AFUE	92.1
Temp. rise (Min.-Max.) °F.	30 - 60
BLOWER DRIVE	
	DIRECT
Diameter-Width (In.)	10 x 7
No. Used	1
Speeds (No.)	4
CFM vs. in. w.g.	See Fan Performance
Motor HP	1/3
R.P.M.	1075
Volts/Ph/Hz	115/1/60
COMBUSTION FAN - Type	
	Centrifugal
Drive - No. Speeds	Direct - 1
Motor HP - RPM	1/55- 3000
Volts/Ph/Hz	115/1/60
F.L. Amps	1.0
FILTER — Furnished?	
	No
Type Recommended	High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 17x25 - 1in.

VENT PIPE DIAMETER — Size (in.)④⑥	2 Round
HEAT EXCHANGER	
Type-Fired	Alum. Steel
-Unfired	
Gauge (Fired)	20
ORIFICES — Main	
Nat.Gas. Qty. — Drill Size	3 — 45
L.P. Gas Qty. — Drill Size	3 — 56
GAS VALVE	Redundant - Single Stage
PILOT SAFETY DEVICE	
Type	Hot Surface Ignition
BURNERS — Type	
	Multiport Inshot
Number	3
POWER CONN. — V/Ph/Hz ④	
	115/1/60
Ampacity (In Amps)	8.4
Max. Overcurrent Protection (amps)	15
PIPE CONN. SIZE (IN.)	
	1/2
DIMENSIONS	
	H x W x D
Crated (In.)	41- 3/4 x 19-1/2 x 30-1/2
Uncrated (In.)	40 x 17-1/2 x 28
WEIGHT	
Shipping (Lbs.) / Net (Lbs)	150 / 140

Notes

① Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3

② For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level.

For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.

③ Based on U.S. government standard tests.

④ The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

⑤ Refer to the Vent Length Table in the Installer's Guide or the Allowable Vent Length label located on the furnace.

⑥ All 'UX1 and 'DX1 furnace models have a vent outlet diameter that equals 2".

Mechanical Specifications

NATURAL GAS MODELS—Central heating furnace designs are certified to ANSI Z21.47 / CSA 2.3 for both natural and L.P. gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

SAFE OPERATION—The Integrated System Control has solid state devices, which continuously monitor for presence of flame, when the system is in the heating mode of operation. Slow opening, dual solenoid combination gas valve and regulator provide extra safety and quieter operation.

QUICK HEATING—Durable, cycle tested, heavy gauge **aluminized steel heat exchanger and stainless steel secondary heat exchanger** quickly transfer over 90% of the heat to provide warm conditioned air to the structure. **Low energy power vent blower**, to increase efficiency and provide a positive discharge of gas fumes to the outside as it draws outdoor air in for sealed combustion, which means it uses no in-door air for combustion.

BURNERS — Multi-port, in-shot burners will give years of quiet and efficient service. All models can be converted to **L.P. gas** without changing burners.

INTEGRATED SYSTEM CONTROL—Exclusively designed operational program provides total control of furnace limit sensors, blowers, gas valve, flame control and includes self diagnostics for ease of service. The built-in, selectable "**Cooling Fan Off**" feature provides time-delay capability like a BAY24X045 Time-Delay Kit for cooling operation. Also contains connection points for E.A.C./humidifier.

AIR DELIVERY — The multispeed, direct-drive blower motor, with sufficient airflow range for most heating and cooling requirements, will switch from heating to cooling speeds on demand from room thermostat. The blower door safety switch will prevent or terminate furnace operation when the blower door is removed. (Fan relay and 35VA control transformer is standard).

STYLING — Heavy gauge steel and "wraparound" cabinet construction is used in the cabinet with baked-on enamel finish for strength and beauty. The heat exchanger section of the cabinet is completely lined with foil-faced fiberglass insulation. This results in quiet and efficient operation due to the excellent acoustical and insulating qualities of fiberglass.

FEATURES AND GENERAL OPERATION — These High Efficiency, Direct Vent, Condensing Gas Furnaces employ a Hot Surface Ignition system, which eliminates the waste of a constantly burning pilot. They are convertible for HORIZONTAL use by rotating the unit to its left side. The integrated system control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

- a. Low energy power venter.
- b. Vent proving differential switch.

Since Trane has a policy of continuous product and product data improvement, it reserves the right to change specifications and design without notice.

Technical Literature - Printed in U.S.A.

Trane
6200 Troup Highway
Tyler, TX 75707



Library	Unitary
Product Section	Furnaces
Product	Furnace
Model	TUX1
Literature Type	Submittal
Sequence	-
Date	08/09
File No.	TUX1B060A-SUB-2B
Supersedes	TUX1B060A-SUB-2A

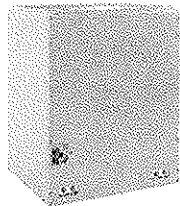


Heating ■ Air Conditioning

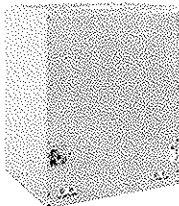
TECHNICAL GUIDE

ADD - ON COILS FOR USE WITH SPLIT-SYSTEM COOLING & HEAT PUMPS

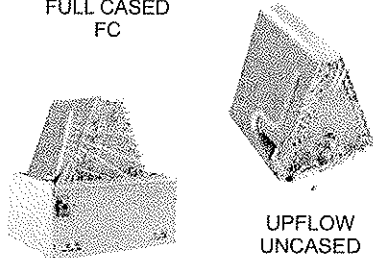
MODELS: MC, PC, FC, HD, UC
600 - 2000 CFM 1.5 - 5 TON COILS



UPFLOW/DOWNFLOW
FULL CASED
FC



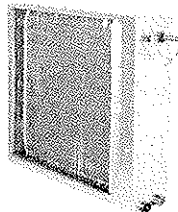
FULL CASED
MULTI-POSITION
MC



UPFLOW
PARTIAL CASED
PC



UPFLOW
UNCASED
UC



HORIZONTAL
DUCT
HD



Due to continuous product improvement, specifications are subject to change without notice.

Visit us on the web at www.york.com for the most up-to-date technical information.

Additional rating information can be found at www.ahridirectory.org

DESCRIPTION

These evaporator coils are designed to be installed with UPG furnaces or modular air handlers and matched with UPG cooling and heat pump outdoor units. All coil models are available as "flex-coil" units without a factory installed metering device. Flex-coil models allow these coils to be used with R-22 or R-410A for added flexibility to meet refrigerant system choice. An orifice metering device or a R-410A TXV should be installed in the field to meet your system requirements.

FC Models, Full Case Coils - Full cased coils are suitable for use in upflow or downflow applications.

MC Models, Multi-Position Coils - MC coils have the added flexibility that allow them to be installed in any position - upflow, downflow, or horizontal right or left. This coil can be easily installed with a UPG furnace or modular air handler in any configuration.

PC Models, Partial Case Coils - These coils are designed for installation on top of upflow furnaces. The partial case height on these coils allows for the flexibility of fabricating the upper portion of the coil casing in the field. The partial cased coils are for use in upflow only applications.

UC Models, Uncased Coils - These coils are designed for installation on top of upflow furnaces, and they are to be used for only upflow applications. The uncased coils allows field modification of the furnace duct for the coil installation.

HD Models, Horizontal Duct Coils - Dedicated horizontal, slab coil available for both cooling and heat pump applications. Field transition may be required.

FEATURES

Rust-proof plastic drain pans - The vertical and horizontal drain pans on these coils are made of a fiberglass reinforced thermoset polymer that will not rust or compromise stability at high temperatures.

Insulated Cabinet - Evaporator coil cabinets are thermally insulated with foil faced insulation to prevent sweating. HD coils use fiberglass Tuf-Skin® insulation.

Internally Clean - All evaporator coils are factory leak-tested, dehydrated, sealed and shipped with a holding charge. The suction and liquid lines are sealed with spun copper fittings with easy access to attach line set.

Durable Finish Inside and Out - Coil casings are made of pre-painted steel. Pre-treated flat galvanized steel provides a better paint to steel bond, which resists corrosion and rust creep. All internal metal parts are made of G90 galvanized steel.

Optimum Heat Transfer - Using the latest in heat transfer technology, staggered rows of copper tubes are mechanically expanded into aluminum fins to provide optimum air to surface contact for ample moisture removal as well as high performance ratings.

ACCESSORIES

Refer to Price Manual for specific model numbers.

TXV Kits - Thermal expansion valve kits are available for flex-coil applications, for converting R-22 to R-410A refrigerant, or as a service replacement. All TXV kits are non-braze. All connections are bolt-on including the valve assembly and equalizer tube. No orifice or any other metering device is to be used in conjunction with the TXV.

Coil Casing Without Coil - Coil casings are available in four widths that can be installed with the furnace or modular air handler during initial installation. This option is available to allow the installer the flexibility to add the coil at a later date without duct modifications.

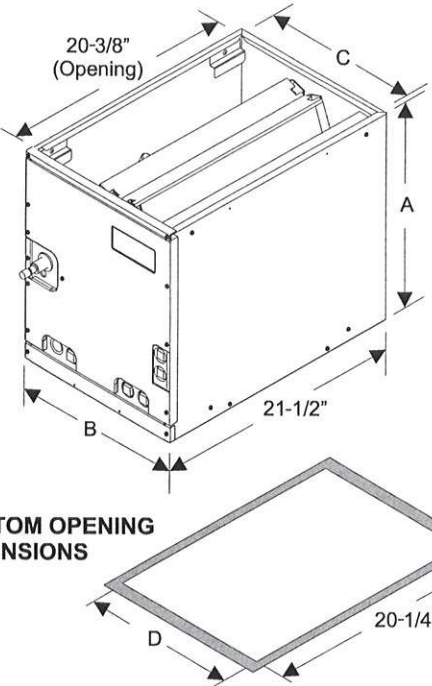
UVC Germicidal Light - The UVC technology effectively prevents mold, bacteria, and other microorganisms that develop in air handling systems. The UVC Light Kit provides safe, continuous cleaning while actually saving money by reducing HVAC system maintenance and energy consumption.

COOLING CAPACITY - COIL ONLY¹

Model Coil	Rated CFM	Entering Air °F (Dry/Wet Bulb)	MBH@ Evaporator Temperature and Corresponding Pressure °F / PSIG			
			35 / 61.5	40 / 68.5	45 / 76.0	50 / 84.0
FULL-CASED "A" TYPE MULTI-POSITION						
MC18A	550	85/72	25.8	23.5	21.0	18.2
		80/67	23.7	21.5	19.0	16.4
		75/62	19.5	17.3	14.9	12.6
		70/57	15.8	13.5	11.5	9.0
MC18B	650	85/72	28.7	26.1	23.3	20.2
		80/67	26.4	23.9	21.1	18.2
		75/62	21.6	19.2	16.6	14.0
		70/57	17.5	15.2	12.8	10.0
MC24(A,B)	850	85/72	36.3	33.0	29.5	25.6
		80/67	33.4	30.2	26.7	23.1
		75/62	27.4	24.3	21.0	17.7
		70/57	22.2	19.3	16.2	12.6
MC30(A,B) MC32A	1025	85/72	41.5	37.8	33.7	29.5
		80/67	36.2	32.4	28.6	24.5
		75/62	29.1	25.3	24.0	19.2
		70/57	24.1	21.5	18.7	15.8
MC35(B,C) MC37A	1200	85/72	59.9	51.5	42.9	33.9
		80/67	48.0	40.3	32.8	25.1
		75/62	37.4	29.8	24.3	20.3
		70/57	32.1	28.1	22.9	19.2
MC36A	1150	85/72	46.8	42.6	38.1	33.6
		80/67	37.5	33.1	29.1	24.7
		75/62	29.3	24.6	26.8	20.0
		70/57	25.1	23.2	21.4	20.0
MC36B	1250	85/72	52.0	47.3	42.3	37.3
		80/67	41.7	36.8	32.3	27.4
		75/62	32.5	27.3	29.8	22.2
		70/57	27.9	25.8	23.8	22.2
MC36C	1250	85/72	53.4	48.6	43.4	38.3
		80/67	42.8	37.8	33.1	28.2
		75/62	33.4	28.1	30.6	22.8
		70/57	28.7	26.5	24.5	22.8
MC42(B,C)	1400	85/72	74.6	64.1	53.4	42.2
		80/67	59.8	50.1	40.8	31.2
		75/62	46.6	37.1	30.2	25.2
		70/57	40.0	35.0	28.5	23.9
MC43(B,C)	1400	85/72	78.3	67.4	56.1	44.3
		80/67	62.7	52.6	42.9	32.8
		75/62	48.9	38.9	31.7	26.5
		70/57	42.0	36.8	29.9	25.1
MC48(C,D)	1650	85/72	83.9	72.1	60.1	47.4
		80/67	67.2	56.4	45.9	35.1
		75/62	52.4	41.7	33.9	28.4
		70/57	45.0	39.4	33.0	27.0
MC60D	1825	85/72	102.9	86.7	70.3	53.3
		80/67	82.4	68.0	53.7	39.4
		75/62	64.2	50.3	39.6	31.8
		70/57	55.1	47.5	38.1	30.3
MC62D	2000	85/72	107.0	90.2	73.1	55.5
		80/67	85.7	70.7	55.8	40.9
		75/62	66.7	52.3	41.2	33.1
		70/57	57.4	49.4	39.7	31.6

¹ See Condensing Unit or Heat Pump Technical Guide for Total Cooling Capacity and Sensible Capacity.

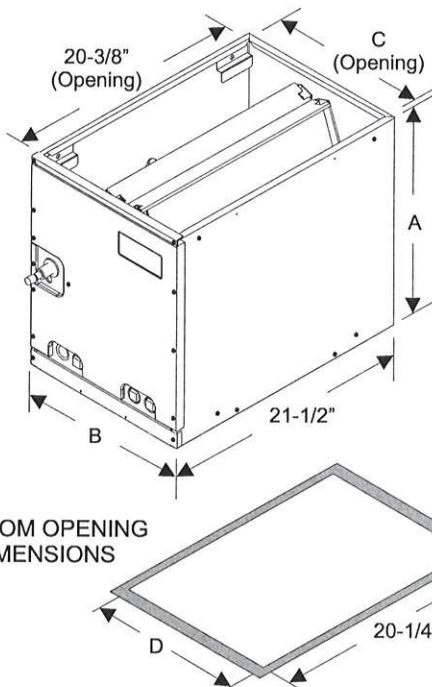
DIMENSIONS



Models	Dimensions ¹				Refrigerant Connections ²	
	Height	Width	Opening Widths		Line Size	
	A	B	C	D	Liquid	Vapor
MC18A	22	14-1/2	13-3/8	13-1/2	3/8	3/4
MC18B	22	17-1/2	16-3/8	16-1/2		
MC24A	26-1/2	14-1/2	13-3/8	13-1/2		
MC24B	26-1/2	17-1/2	16-3/8	16-1/2		
MC30A	26-1/2	14-1/2	13-3/8	13-1/2		
MC30B	26-1/2	17-1/2	16-3/8	16-1/2		
MC32A	22	14-1/2	13-3/8	13-1/2		
MC35B	22	17-1/2	16-3/8	16-1/2		
MC35C	22	21	19-7/8	20		
MC36A	26-1/2	14-1/2	13-3/8	13-1/2		
MC36B	26-1/2	17-1/2	16-3/8	16-1/2		
MC36C	26-1/2	21	19-7/8	20		
MC37A	26-1/2	14-1/2	13-3/8	13-1/2		
MC42B	32	17-1/2	16-3/8	16-1/2		
MC42C	32	21	19-7/8	20		
MC43B	26-1/2	17-1/2	16-3/8	16-1/2		
MC43C	26-1/2	21	19-7/8	20		
MC48C	32	21	19-7/8	20		
MC48D	32	24-1/2	23-3/8	23-1/2		
MC60D	32	24-1/2	23-3/8	23-1/2		
MC62D	36	24-1/2	23-3/8	23-1/2		

1 All dimensions are in inches.

2 Refrigerant line sizes may require larger lines for extended line lengths. See Application Data part number 247077.



Models	Dimensions ¹				Refrigerant Connections ²	
	Height	Width	Opening Widths		Line Size	
	A	B	C	D	Liquid	Vapor
FC18A	18	14-1/2	13-3/8	13-1/2	3/8	3/4
FC18B	18	17-1/2	16-3/8	16-1/2		
FC24A	22	14-1/2	13-3/8	13-1/2		
FC24B	22	17-1/2	16-3/8	16-1/2		
FC30A	22	14-1/2	13-3/8	13-1/2		
FC30B	22	17-1/2	16-3/8	16-1/2		
FC32A	20	14-1/2	13-3/8	13-1/2		
FC35B	20	17-1/2	16-3/8	16-1/2		
FC35C	20	21	19-7/8	20		
FC36A	24-1/2	14-1/2	13-3/8	13-1/2		
FC36B	24-1/2	17-1/2	16-3/8	16-1/2		
FC36C	24-1/2	21	19-7/8	20		
FC37A	24-1/2	14-1/2	13-3/8	13-1/2		
FC42B	28	17-1/2	16-3/8	16-1/2		
FC42C	28	21	19-7/8	20		
FC43B	24-1/2	17-1/2	16-3/8	16-1/2		
FC43C	24-1/2	21	19-7/8	20		
FC48C	28	21	19-7/8	20		
FC48D	28	24-1/2	23-3/8	23-1/2		
FC60C	28	21	19-7/8	20		
FC60D	28	24-1/2	23-3/8	23-1/2		
FC62D	32	24-1/2	23-3/8	23-1/2		
FC64D	36	24-1/2	23-3/8	23-1/2		

1 All dimensions are in inches.

2 Refrigerant line sizes may require larger lines for extended line lengths. See Application Data part number 247077.

FLUE AND VENT. TERMINATE WITH CONCENTRIC VENT KIT AT ROOF. REFER TO DETAIL.

2" X 2" X 1/4" ANGLE IRON SUPPORT. SPAN TWO (2) JOISTS MINIMUM

ROUTE REFRIGERANT LINES IN JOIST SPACE. (REFERENCE PLAN FOR CONTINUATION)

HORIZONTAL FILTER HOUSING WITH RACK AND DOOR GASKETS. "MCDANIELS ACG" OR EQUAL

OUTDOOR AIR

18" MIN

OUTDOOR AIR

RETURN AIR PLENUM

MOTORIZED DAMPER

MANUAL DAMPER

2" X 2" X 1/4" ANGLE IRON

1/2" ALL THREAD ROD W/DOUBLE LOCK NUT & COTTER PIN. (TYPICAL TOP & BOTTOM) LOCATE RODS TO ALLOW REMOVAL OF AHU ACCESS PANELS

INDICATES STRUCTURAL MEMBRANE REFER TO ARCHITECTURAL DRAWING FOR EXACT SIZE & CONFIGURATION

BLOWER ACCESS

SERVICE ACCESS

SUPPLY AIR DUCT: PROVIDE TRANSITION FROM UNIT TO DUCT SIZE ON FLOOR PLANS

NEOPRENE FLEXIBLE CONNECTION

CEILING: REFERENCE ARCHITECTURAL FLOOR PLANS FOR CEILING HEIGHT

AUXILIARY DRAIN: WITH OVERFLOW CUTOFF SWITCH

1" THICK NEOPRENE VIBRATION ISOLATORS

CONDENSATE DRAIN LINE: REFERENCE FLOOR PLAN FOR CONTINUATION

