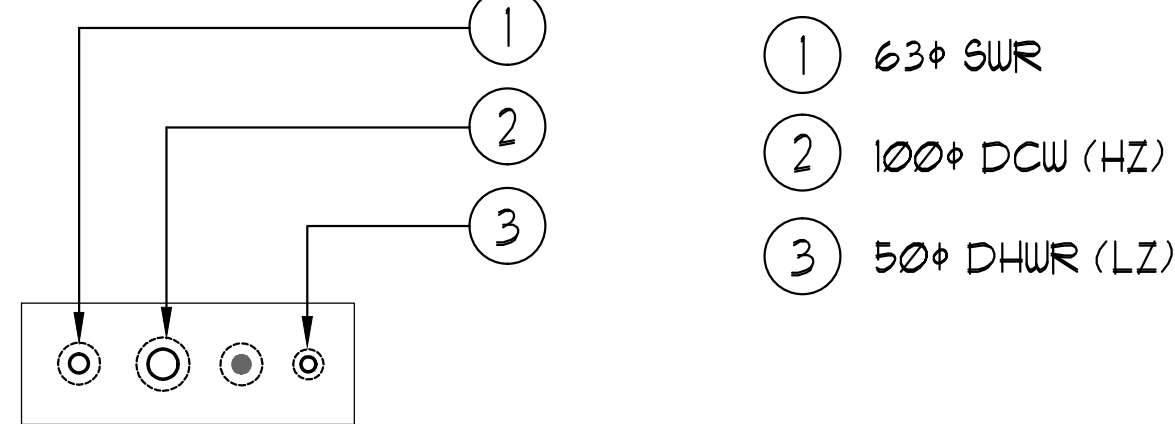
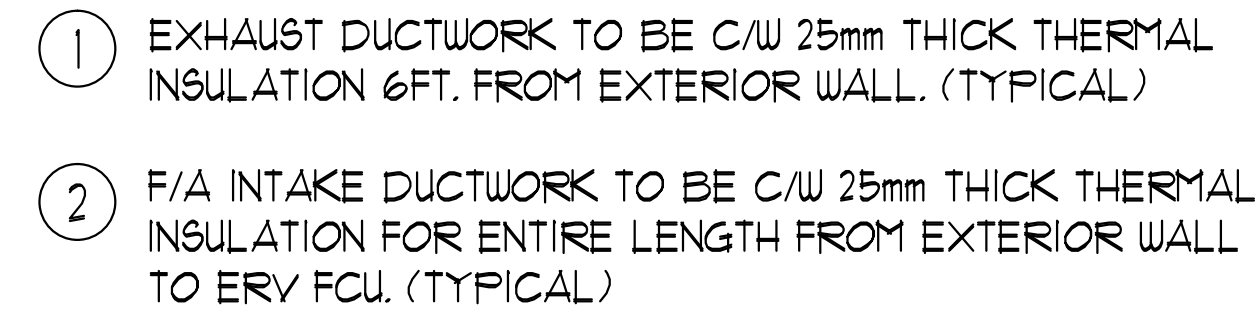




GRILLE SIZING TABLE				VERTICAL FAN COIL SIZE		
DESIGNATION	SIZE	L/S	(UNLESS SPECIFIED ELSEWHERE)	DESIGNATION	MODEL	W x D
SG-A	300x100	41-70		FCU-1T	450	508x660
SG-B	300x150	71-93		FCU-15T	600	508x660
SG-C	400x150	94-140		FCU-2T	800	508x660
SG-D	450x150	141-188		FCU-25T	1000	559x660
EG-A	150x150	35		FCU-3T	1200	559x660
W-1	225x200	210mm (L)		NOTE: A MIN. OF 125mm IS REQUIRED ON THE SIDE OF PIPE RISER.		
W-2	425x200	INSULATED				
W-3	625x200	WALL BOX				

- 1) CONTRACTOR SHALL CO-ORDINATE ARCHITECTURAL, STRUCTURAL, LIGHTING, HVAC, SPRINKLER DRAWINGS TO AVOID AREAS OF CONFLICT AND TO MAINTAIN CEILING HEIGHTS.
- 2) CONTRACTOR SHALL REPORT ALL DISCREPANCIES AND AREA OF CONFLICTS TO THE ENGINEER PRIOR TO WORK BEGINS.
- 3) PROVIDE EXPANSION CHAMBERS FOR ALL KITCHEN SINKS.
- 4) SEE INSTALLATION DETAILS DRAWING FOR WASHER DOM. H4C WATER, SANITARY CONNECTION DETAILS.
- 5) SUPPLY AND INSTALL COMPLETE DOMESTIC HOT AND COLD WATER LINES, SANITARY AND VENT LINES TO EACH FIXTURE /EQUIPMENT INCLUDING WATER CLOSETS, LAVATORIES, BATHS, SHOWERS, KITCHEN SINK, WASHING MACHINES, DISHWASHERS, AND FLOOR DRAINS, KITCHEN SINK, LAVATORIES, WATER CLOSETS AND WASHING MACHINE TO BE C/W LOCALIZED SHUT-OFF VALVES.
- 6) ALL VENT PIPE INSTALLATION TO COMPLY WITH PLUMBING CODES.
- 7) FOR D.H.G. W. RISER SIZES, REFER TO RISER DIAGRAM
- 8) FIRE DAMPERS ARE REQUIRED TO BE LISTED AND ARE TO HAVE FIRE PROTECTION RATING OF THE PENETRATED FIRE SEPARATION.
- 9) THE PIPING PENETRATING THE VARIOUS FIRE SEPARATION IS REQUIRED TO BE FIRESTOPPED WITH A LISTED FIRESTOPPING MATERIAL IN ACCORDANCE WITH OBC ARTICLE 3.13)
- 10) THE FIRE HOSE CABINET THAT ARE RECESSED INTO THE EXIT STAIR SHAFTS ARE REQUIRED TO BE SEPARATED FROM THE EXIT STAIR BY A 2 HR. FIRE SEPARATION.
- 11) NO FLEXIBLE DUCT SHALL BE USED FOR ANY IN-SUITE DUCTWORK.
- 12) PROVIDE 25MM EXTERNAL INSULATION TO ENTIRE FRESH AIR DUCT FROM EXTERIOR WALL TO ERV FAN COIL UNIT.
- 13) DRYER EXHAUST DUCT SHALL BE SMOOTH AND CORROSION-RESISTANT MATERIAL. (FLEXIBLE CONNECTION IS NOT ACCEPTABLE.)

LEGEND MECHANICAL	
SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER
	SUPPLY AIR REGISTER
	LINEAR SUPPLY DIFFUSER
	THERMOSTAT
	FAN RETURN
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DOWN
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
	FIRE DAMPER
	BALANCING DAMPER
	NORMALIZED DAMPER
	MOTORIZED FIRE DAMPER
	CONTROLLED BLADE VOLUME CONTROL DAMPER
	NO LOCKING BYPASS
	TURNING VANES
	FLEXIBLE CONNECTION
	ACOUSTIC INSULATION
	TYPE OF EQUIPMENT
	TYPE OF CONNECTION
	TYPE OF DIFFUSER OR GRILLE
	SIZE OF DIFFUSER OR GRILLE
	ANGLE (°) OR L/A
	BATCHES 1 & PHASE 1
	BATCHES 1 & PHASE 2
	FAN RETURN IN-RATE BYPASS BUTTON
	CO SENSOR
	GAS LINE
	GAS METER
	GAS COOK
	PRESSURE REDUCING VALVE
	SANITARY ABOVE GRADE
	SANITARY BELOW GRADE
	STORM ABOVE GRADE
	STORM BELOW GRADE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	SANITARY VENT
	WATER METER
	FLOOD DRAIN
	HUB DRAIN
	ROOF DRAIN
	SLD SLDRAIN
	AREA DRAIN
	B+LEVEL AREA DRAIN
	CATCH BASIN
	SANITARY TRAP
	ELBOW UP
	ELBOW DOWN
	WALL CLEANOUT
	FLOOR CLEANOUT
	HUB
	NON-FREEZE HOSE BIBB
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	CAP
	COMPRESSED AIR OUTLET
	BACKFLOW PREVENTER
	CIRCUIT BALANCING VALVE
	MULTIPLE PIPES
	DIAGNOSED NO. OF PIPES
	TEMPERATURE SENSOR
	THERMOPILE
	2-WAY MODULATING VALVE
	3-WAY MODULATING VALVE
	BACKFLOW THERMOPILE
	C/W 1/2" BURNING 4 1/2" PLUG
	FLOOR ELEVATION ABOVE LEVEL
	FLOOR ELEVATION BELOW LEVEL
	HEADROOM FLOOR TO US HEIGHT



The diagram shows two vertical shafts, labeled 1 and 2, connected by a horizontal pipe. Shaft 1 (North F/A Shaft A) contains a pump (circle with a cross) and a valve (circle with a dot). Shaft 2 contains a valve (circle with a dot). The horizontal pipe has a valve (circle with a dot) on the left side. The connections are as follows: 1. A line from the top of Shaft 1 goes to a pump. 2. A line from the bottom of Shaft 1 goes to a valve. 3. A line from the top of Shaft 2 goes to a valve. 4. A line from the bottom of Shaft 2 goes to a valve. 5. A line from the top of Shaft 1 goes to a valve on the horizontal pipe. 6. A line from the bottom of Shaft 1 goes to a valve on the horizontal pipe. 7. A line from the top of Shaft 2 goes to a valve on the horizontal pipe. 8. A line from the bottom of Shaft 2 goes to a valve on the horizontal pipe.

Legend:

- 1 NORTH F/A SHAFT A
- 2 150" CWIS
- 3 150" CUR

Legend:

- 1 150" SWIS
- 2 50" GAS VENT
- 3 63" GAS (5LB) FOR BUILDING

NOTE:

- ① NORTH F/A SHAFT B FROM G/F TO 14/F. DUCT SERVING CORRIDOR FROM G/F TO 14/F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
- ② PIPE SHAFT - REFER TO PIPE RISER DETAIL ON THIS DRAWING FOR DETAILS.
- ③ 150# KITCHEN / DRYER / W/R / FCU INTAKE / FCU EXHAUST DUCT.
(TYPICAL UNLESS OTHERWISE NOTED)
- ④ NORTH F/A SHAFT A FROM G/F TO 14/F. DUCT SERVING CORRIDOR FROM 9/F TO 14/F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
- ⑤ 600# GARBAGE CHUTE.
- ⑥ 19# GAS PIPE c/w VALVE AND CAP FOR BBQ.
- ⑦ 19# DCW FOR NFPHB TO BE CONNECTED TO SUITE'S MAIN DCW LINE.
- ⑧ 100# RUL FROM ABOVE AND DOWN.
- ⑨ 150# RUL FROM ABOVE AND DOWN.

