

### DEDICATED OUTSIDE AIR UNIT SCHEDULE

SYMBOL	DOAU-1	DAIKIN
MANUFACTURER		DAIKIN
MODEL NUMBER		MPS030F
SUPPLY FAN	AIRFLOW (CFM TO SPACE)	5505
	EXT. STATIC PRESSURE (IN.)	0.50
	TOTAL STATIC PRESS. (IN.)	1.88
	QUANTITY	1
	TYPE	BELT
EXHAUST FAN	HORSEPOWER (E.A.)	10
	AIRFLOW (CFM FROM SPACE)	2000
	EXT. STATIC PRESSURE (IN.)	0.03
	TOTAL STATIC PRESS. (IN.)	0.50
	QUANTITY	1
COMPRESSORS	TYPE	DIRECT
	HORSEPOWER	4
	NOMINAL TONNAGE	28
MAKE UP AIR (SUMMER)	QUANTITY	3
	ENT UNIT AIR (DB/WB °F)	95/78
	ENT. RTN. AIR (DB/WB/DP °F)	75/62/54.07
MAKE UP AIR (WINTER)	LVG UNIT AIR (DB/WB/DP °F)	87.1/72.4/66.0
	ENT UNIT AIR (DB °F)	20
	LVG UNIT AIR (DB °F)	38.2
ELECTRICAL	MCA	168.1
	MOP	200
	VOLTAGE	208/3/920
TOTAL UNIT WEIGHT (LBS.)	5392	

REMARKS:

- PRIOR TO ORDERING, CONTRACTOR SHALL VERIFY VOLTAGE, ALL ELECTRICAL REQUIREMENTS AND CONFIRM DISCONNECTS ARE PROVIDED BY ELECTRICAL CONTRACTOR.
- PROVIDE UNIT WITH 2" MERV 8 PLEATED FILTERS ON MAKE UP AIR INLET AND EXHAUST INLET. PROVIDE MAKE UP AIR INLET WITH RAIN HOOD, DIRECT DRIVE SUPPLY AND EXHAUST FANS W/ VFD, FUSED DISCONNECT & 2" FOAM-INJECTED DOUBLE-WALL PANELS AND ACCESS DOORS.
- PROVIDE UNIT WITH ENERGY RECOVERY, MODULATING HOT GAS REHEAT AND PHASE FAILURE MONITOR.
- PROVIDE WITH 115v GFI OUTLET. DEDICATED CIRCUIT REQUIRED, COORDINATE WITH ELECTRICAL CONTRACTOR.
- PROVIDE WITH VARIABLE FREQUENCY DRIVE (VFD) FOR VARIABLE SPEED OPERATION.
- STANDALONE CONTROLS AND INTERFACE WITH DH-1 BASED ON TEMPERATURE AND BUILDING PRESSURE. (BASE BID)

### ELECTRIC DUCT HEATER SCHEDULE

SYMBOL	DH-1	MARKEL
MANUFACTURER		MARKEL
MODEL NUMBER	FH	
K.W. TOTAL	45	
CONTROL STEPS	SCR	
VOLTAGE	208/3/60	
B.T.U.H.	153540	
DUCT WIDTH (IN.)	26	
DUCT HEIGHT (IN.)	26	
TYPE	INSERT	

REMARKS:

- PRIOR TO ORDERING, CONTRACTOR SHALL VERIFY VOLTAGE AND ALL ELECTRICAL REQUIREMENTS.
- PROVIDE UNITS WITH GALVANIZED STEEL CONTROL BOX WITH 1/2" HIGH DENSITY FIBERGLASS INSULATION BETWEEN THE CABINET AND THE HEATING SECTION, HINGED COVER, SCR CONTROL, PRIMARY & SECONDARY OVER TEMPERATURE PROTECTION, 24 VOLT TRANSFORMER, MERCURY CONTACTOR & FUSING AS REQUIRED BY NEC.
- INSTALL HEATERS PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE BUILT-IN NON-FUSED DISCONNECT MOUNTED ON THE HINGED COVER, INTERLOCKED TO OPEN ONLY WHEN IN THE OFF POSITION AND DIFFERENTIAL PRESSURE SWITCH FAN INTERLOCK.

### FAN SCHEDULE

SYMBOL	KEF-1	KSF-1	VF-1,2
MANUFACTURER		GREENHECK	
MODEL NUMBER	CUBE-161HP	BSQ-120-10	SS1-10-428-P
AIRFLOW (C.F.M.)	2000	1776	250
STATIC PRESSURE (IN.)	1.25	1	0.25
SONES (MAX.)	15.4	17.0	10.3
MOTOR HORSEPOWER	1-1/2	1	FRACT.
FAN R.P.M.	1532	1966	1650
VOLTAGE	208/3/60	208-3-60	115/1/60
DRIVE TYPE	BELT	BELT	DIRECT
ROOF/WALL OPENING SIZE (IN.)	18.5x18.5	--	16.25 x 16.25
OPERATION	EXHAUST	SUPPLY	VENTILATION
DAMPER SIZE (IN)	16x16		14 x 14
WEIGHT (EXCLUDING CURB) (LBS.)	85	105	44

REMARKS:

- PRIOR TO ORDERING, CONTRACTOR SHALL VERIFY VOLTAGE AND ALL ELECTRICAL REQUIREMENTS.
- PROVIDE VF-1 & VF-2 WITH THERMOSTAT.
- PROVIDE KEF-1 WITH UL762 & 705 WITH DRAIN PORT, NON STICK WHEEL HEAT BAFFLE & DISCONNECT.

### EXHAUST HOOD SCHEDULE

SYMBOL	KH-1	GREENHECK
MANUFACTURER		GREENHECK
MODEL NUMBER	GHEW-116-S-X	
HOOD SIZE (LxW) (IN)	OVERALL AREA 128 x 65	
CAPTURE AREA	116 x 51	
SUPPLY AIRFLOW (CFM)	1,973	
SUPPLY CONNECTION SIZE (IN)	18 x 10	
EXHAUST CONNECTION SIZE (IN)	19 x 9	
EXHAUST PRESS. DROP (IN W.G.)	0.661	

REMARKS:

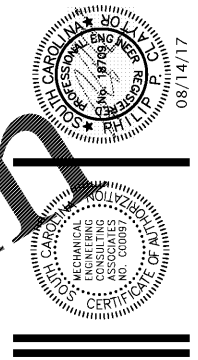
- HOOD SIZE CAPTURE AREA INDICATED IS INTERIOR DIMENSIONS AND DOES NOT INCLUDE SUPPLY AIR PLENUM.
- PROVIDE DOUBLE WALL FRONT WITH 1" INSULATION, FACTORY INSTALLED EXHAUST DUCT COLLAR WITH PERIMETER WELDING FLANGE AND FLUORESCENT TYPE LIGHT FIXTURE AND ALUMINUM BAFFLE FILTERS.
- PROVIDE 3" INSULATED STAND-OFF BETWEEN HOOD AND WALLS TO ALLOW 0" CLEARANCE TO COMBUSTIBLES AND BE IN COMPLIANCE WITH NFPA96, UL710 LISTED AND BEAR THE U.L. LABEL AND NSF SEAL OF APPROVAL.
- PROVIDE WITH FACTORY INSTALLED, PRE-PIPED AND PRE-WIRED NFPA #96 AND #17A, UL300 AND ISO 9001-2000 COMPLIANT FIRE SUPPRESSION SYSTEM WITH CABINET TO BE ATTACHED TO HOOD, FUEL SHUT-OFF DEVICE AND REMOTE MOUNTED PULL STATION, DETECTOR TO BE INTEGRATED INTO THE FIRE ALARM SYSTEM. VERIFY LEFT/RIGHT HAND IN FIELD WITH ALL DISCIPLINES.
- PROVIDE WITH INSULATED VARIABLE SUPPLY PLENUM (VSP) WITH 1" THICK LINER, FACTORY MOUNTED DUCT COLLARS, MANUAL DAMPER TO MODULATE AIR FLOW BETWEEN FACE AND AIR CURTAIN PANELS.
- HOOD, PLENUMS AND ENCLOSURE PANELS SHALL BE 16ga 430 STAINLESS STEEL AND BE CONTINUOUS LIQUID TIGHT WELDED CONSTRUCTION WITH POLISHED FINISH AND SEAMS.
- PROVIDE FACTORY MOUNTED UL LISTED TEMPERATURE INTERLOCK WITH A HEAT SENSOR IN HOOD EXHAUST COLLAR TO ACTIVATE THE EXHAUST FAN(S) WHENEVER COOKING OPERATIONS OCCUR.
- THE FOLLOWING SYSTEM TESTING SHALL BE PERFORMED PRIOR TO FINAL APPROVAL OF THE AUTHORITY HAVING JURISDICTION (AHJ) PER INTERNATIONAL MECHANICAL CODE (IMC), NFPA 96, LOCAL REQUIREMENTS AND MANUFACTURER'S GUIDELINES:
  - GREASE DUCT LIGHT TEST FOR LEAKAGE.
  - EXHAUST AND MAKE-UP AIR FLOW TEST AND PROPER BALANCE TO DESIGN.
  - CONTURMENT AND CONTAINMENT TEST WITH ALL APPLIANCES AT OPERATING TEMPERATURE.
  - SIMULATED COOKING WITH SMOKE PUFFERS.
  - FIRE SUPPRESSION SYSTEM PERFORMANCE USING AIR AND HYDROSTATIC DUMP TEST.
  - TESTING OF THE FACTORY MOUNTED UL TEMPERATURE INTERLOCK.

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Designed: TAS  
Approved: PFC  
Job No.: 116226  
Plot Date: 08/14/17



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Pinewood Community Bldg.  
Richland County  
Old Garners Ferry Road  
Columbia, SC 29209

Construction Documents

Drawn: -	Checked: -
Revised: -	
File: -	Project No.: #####

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