

VARIABLE REFRIGERANT FLOW AND CONDENSING UNIT SCHEDULE



TAG	LOCATION	AREA SERVED	MANUFACTURER	MODEL NUMBER	TYPE	COOLING CAPACITY TOTAL/SENS. (MBH)	HEATING CAPACITY SENS. (MBH)	CFM	EAT D.B. (°F)	EAT W.B. (°F)	FILTER TYPE	MCA/MOP	VOLT/PH	DIMENSIONS HxWxD (IN.)
VRF 1	EXISTING OFFICE 1015D	EXISTING OFFICE 1015D	DAIKIN	FXZQ09TAVJU	4-WAY CEILING CASSETTE	8.0/5.9	10.6	317	75.0	62.4	WASHABLE	0.3/15	208-230/1	10.2 x 22.6 x 22.6
VRF 2	EXISTING OFFICE 1015C	EXISTING OFFICE 1015C	DAIKIN	FXZQ09TAVJU	4-WAY CEILING CASSETTE	8.0/5.9	10.6	317	75.0	62.4	WASHABLE	0.3/15	208-230/1	10.2 x 22.6 x 22.6
VRF 3	EXISTING OFFICE 1015A	EXISTING OFFICE 1015A	DAIKIN	FXZQ18TAVJU	4-WAY CEILING CASSETTE	15.1/11.5	20.1	511	75.0	62.4	WASHABLE	0.6/15	208-230/1	10.2 x 22.6 x 22.6
VRF 4	CONFERENCE ROOM 1015E	CONFERENCE ROOM 1015E	DAIKIN	FXZQ12TAVJU	4-WAY CEILING CASSETTE	10.2/7.1	13.6	353	75.0	62.4	WASHABLE	0.6/15	208-230/1	10.2 x 22.6 x 22.6
VRF 5	EXISTING CORRIDOR C104	RECEPTION AREA 1015	DAIKIN	FXM024PBVJ	DUCTED FAN COIL	20.2/16.5	30.0	688	75.0	62.4	WASHABLE	1.8/15	208-230/1	12.0 x 40.9 x 27.6
VRF 6	EXISTING CORRIDOR C104	EXISTING LOBBY 1017	DAIKIN	FXM024PBVJ	DUCTED FAN COIL	20.2/16.5	30.0	688	75.0	62.4	WASHABLE	1.8/15	208-230/1	12.0 x 40.9 x 27.6
VRF 7	EXISTING WKROOM 1018A	EXISTING WKROOM 1018A	DAIKIN	FXZQ18TAVJU	4-WAY CEILING CASSETTE	15.1/11.5	20.1	511	75.0	62.4	WASHABLE	0.6/15	208-230/1	10.2 x 22.6 x 22.6
VRF 8	EXISTING WKROOM 1018A	EXISTING WKROOM 1018A	DAIKIN	FXZQ18TAVJU	4-WAY CEILING CASSETTE	15.1/11.5	20.1	511	75.0	62.4	WASHABLE	0.6/15	208-230/1	10.2 x 22.6 x 22.6
VRF 9	ASST. PRINCIPAL OFFICE 2000	ASST. PRINCIPAL OFFICE 2000	DAIKIN	FXZQ12TAVJU	4-WAY CEILING CASSETTE	10.2/7.1	13.6	353	75.0	62.4	WASHABLE	0.6/15	208-230/1	10.2 x 22.6 x 22.6
VRF 10	RECEPTION 2004	RECEPTION 2004	DAIKIN	FXZQ18TAVJU	4-WAY CEILING CASSETTE	15.1/11.5	20.1	511	75.0	62.4	WASHABLE	0.6/15	208-230/1	10.2 x 22.6 x 22.6
VRF 11	ATH. DIR. OFFICE 2006	ATH. DIR. OFFICE 2006	DAIKIN	FXZQ12TAVJU	4-WAY CEILING CASSETTE	10.2/7.1	13.6	353	75.0	62.4	WASHABLE	0.6/15	208-230/1	10.2 x 22.6 x 22.6
VRF 12	RECEPTION 2004	TRIUM CORR. NORTH 2006	DAIKIN	FXM024PBVJ	DUCTED FAN COIL	20.2/16.5	30.0	688	75.0	62.4	WASHABLE	1.8/15	208-230/1	12.0 x 40.9 x 27.6
VRF 24	EXISTING MECH. 2003	EAST SIDE OUTDOOR AIR	DAIKIN	FXM048MFVJ	DUCTED FAN COIL	39.0	21.0	475	----	----	WASHABLE	1.9/15	208-230/1	18.5 x 43.3 x 29.3
VRF 25	EXISTING MECH. 2002	WEST SIDE OUTDOOR AIR	DAIKIN	FXM048MFVJ	DUCTED FAN COIL	39.0	21.0	475	----	----	WASHABLE	1.9/15	208-230/1	18.5 x 43.3 x 29.3
VRF 13	EXISTING OFFICE 1015J	EXISTING OFFICE 1015J	DAIKIN	FXZQ12TAVJU	4-WAY CEILING CASSETTE	10.2/7.1	13.6	353	75.0	62.4	WASHABLE	0.6/15	208-230/1	10.2 x 22.6 x 22.6
VRF 14	EXISTING NURSE CLINIC 1016	EXISTING NURSE CLINIC 1016	DAIKIN	FXZQ12TAVJU	4-WAY CEILING CASSETTE	10.2/7.1	13.6	353	75.0	62.4	WASHABLE	0.6/15	208-230/1	10.2 x 22.6 x 22.6
VRF 15	EXISTING NURSE CLINIC 1016	EXISTING NURSE CLINIC 1016	DAIKIN	FXZQ12TAVJU	4-WAY CEILING CASSETTE	10.2/7.1	13.6	353	75.0	62.4	WASHABLE	0.6/15	208-230/1	10.2 x 22.6 x 22.6
VRF 16	EXISTING CORRIDOR C104	WAITING AREA 1015G	DAIKIN	FXM024PBVJ	DUCTED FAN COIL	20.2/16.5	30.0	688	75.0	62.4	WASHABLE	1.8/15	208-230/1	12.0 x 40.9 x 27.6
VRF 17	EXISTING CORRIDOR C104	EXISTING LOBBY 1017	DAIKIN	FXM024PBVJ	DUCTED FAN COIL	20.2/16.5	30.0	688	75.0	62.4	WASHABLE	1.8/15	208-230/1	12.0 x 40.9 x 27.6
VRF 18	EXISTING OFFICE 1060	EXISTING OFFICE 1060	DAIKIN	FXZQ09TAVJU	4-WAY CEILING CASSETTE	8.0/5.9	10.6	317	75.0	62.4	WASHABLE	0.3/15	208-230/1	10.2 x 22.6 x 22.6
VRF 19	EXISTING OFFICE 1060A	EXISTING OFFICE 1060A	DAIKIN	FXZQ09TAVJU	4-WAY CEILING CASSETTE	8.0/5.9	10.6	317	75.0	62.4	WASHABLE	0.3/15	208-230/1	10.2 x 22.6 x 22.6
VRF 20	PRINCIPAL'S OFFICE 2001	PRINCIPAL'S OFFICE 2001	DAIKIN	FXZQ18TAVJU	4-WAY CEILING CASSETTE	15.1/11.5	20.1	511	75.0	62.4	WASHABLE	0.6/15	208-230/1	10.2 x 22.6 x 22.6
VRF 21	CONFERENCE ROOM 2005	CONFERENCE ROOM 2005	DAIKIN	FXZQ18TAVJU	4-WAY CEILING CASSETTE	15.1/11.5	20.1	511	75.0	62.4	WASHABLE	0.6/15	208-230/1	10.2 x 22.6 x 22.6
VRF 22	RECEPTION 2007	RECEPTION 2007	DAIKIN	FXZQ12TAVJU	4-WAY CEILING CASSETTE	10.2/7.1	13.6	353	75.0	62.4	WASHABLE	0.6/15	208-230/1	10.2 x 22.6 x 22.6
VRF 23	RECEPTION 2007	RECEPTION 2007	DAIKIN	FXZQ12TAVJU	4-WAY CEILING CASSETTE	10.2/7.1	13.6	353	75.0	62.4	WASHABLE	0.6/15	208-230/1	10.2 x 22.6 x 22.6

NOTES:

1. PROVIDE DISCONNECT SWITCH FOR EACH VRF/CU UNIT.
2. PROVIDE OUTSIDE AIR INTAKE CONNECTION FOR EACH UNIT.
3. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT FOR EACH UNIT.
4. PROVIDE GRILLE FOR EACH CASSETTE.
5. PROVIDE CONDENSATE PUMP AND COND. PAN FLOAT ALARM AND SHUT DOWN OF EACH UNIT.

6. PROVIDE EACH UNIT AUTOMATIC FAN SPEED CONTROL.
7. SYSTEM DESIGNED FOR SIMULTANEOUS HEATING/COOLING OPERATION.
8. PROVIDE ALL HARDWARE, HANGERS, ISOLATORS FOR COMPLETE INSTALLATION.
9. PROVIDE 18" HIGH PLATFORM CURB WITH STAND FOR CONDENSING UNIT(S) FOR ROOF INSTALLATION, PER MANUFACTURERS RECOMMENDATIONS.

10. PROVIDE ISOLATION VALVES PER MANUFACTURERS RECOMMENDATIONS.
11. PROVIDE CU OPERATION TO -13 DEG. F.



ELECTRIC CABINET/WALL UNIT HEATER SCHEDULE

GENERAL DATA						FAN DATA		HEATING COIL DATA			CABINET DATA							ELECTRICAL DATA			FILTERS		NOTES
TAG	LOCATION	AREA SERVED	MANUFACTURER	MODEL NUMBER	TYPE	CFM	RPM	KW	PHASE	VOLT	MOUNTING	ARRANGEMENT	PROJECTION	MOUNTING HEIGHT	LENGTH (IN.)	HEIGHT (IN.)	DEPTH (IN.)	AMPS	VOLT	PH	TYPE	SIZE (IN.)	
 EWH 1	EXISTING TOILET 1016C	EXISTING TOILET 1016C	BERKO	FRC1812	WALL CABINET RECESSED	100	---	1.8	1	120	WALL	TOP/F SUPPLY BOT/F RETURN	NONE	6" AFF	16	20	4	15.0	120	1	PERMANENT	-	
 EWH 2	EXISTING TOILET 1016B	EXISTING TOILET 1016B	BERKO	FRC1812	WALL CABINET RECESSED	100	---	1.8	1	120	WALL	TOP/F SUPPLY BOT/F RETURN	NONE	6" AFF	16	20	4	15.0	120	1	PERMANENT	-	

NOTES:

1. BUILT IN DISCONNECT.
2. PROVIDE RECESSING FLANGE/SLEEVE AND MOUNTING HARDWARE
3. COLOR AS SELECTED BY ARCHITECT.
4. PROVIDE INTEGRAL THERMOSTAT.

VRF REFRIGERANT BOXES



GENERAL DATA					ELECTRICAL DATA			NOTE
TAG	LOCATION	MODEL NO.	MANUFACTURER	QUANTITY	VOLT	PH	MCA/MOP	
RS 1	EXISTING BUILDING	BS4Q54TVJ	DAIKIN	1	208-230	1	0.4/15.0	1,2
RS 2	EXISTING BUILDING	BS4Q54TVJ	DAIKIN	1	208-230	1	0.4/15.0	1,2
RS 3	EXISTING BUILDING	BS4Q54TVJ	DAIKIN	1	208-230	1	0.4/15.0	1,2
RS 4	EXISTING BUILDING	BS4Q54TVJ	DAIKIN	1	208-230	1	0.4/15.0	1,2

NOTES:

1. PROVIDE ISOLATION VALVES AT EACH CONNECTION.
2. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRIC DUCT HEATER SCHEDULE

GENERAL DATA						ELECTRICAL DATA			CONTROLS	BTU/HR	NOTES
TAG	LOCATION	UNIT SERVED	MANUFACTURER	CFM	SIZE (W x H)	KW	VOLT	PH			
EDH 1	EXISTING MECH. 2003	VRF-24	BRASCH	475	12" x 12"	6.0	208	3	SCR	20,472	1,2,3
EDH 2	EXISTING MECH. 2002	VRF-25	BRASCH	475	12" x 12"	6.0	208	3	SCR	20,472	1,2,3

NOTES:

1. PROVIDE COILS WITH DUCT FLANGES, MANUAL AND AUTOMATIC THERMAL RESET, SCR CONTROLLER, DOOR INTERLOCK, POSITIVE AIRFLOW SWITCH, TRANSFORMER.
2. NON-FUSED INTERLOCKING DISCONNECT SWITCH, HORIZONTAL AIRFLOW, 0-10VDC INPUT, DISCONNECTION SAFETY MAGNETIC CONTACTOR.
3. SEE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.

PUMP SCHEDULE

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL NUMBER	TYPE	GPM	WATTS	VOLT/PH	HEAD (FT.)	IMP. DIA. (IN.)	RPM	EFFICIENCY	TRIPLE DUTY VALVE	NOTES
BP 1	EXISTING MECH. 2003	EXISTING RADIATION	BELL & GOSSETT	ECOCIRC 19_16	INLINE	--	60	120/1	--	--	--	--	--	1
BP 2	EXISTING MECH. 2002	EXISTING RADIATION	BELL & GOSSETT	ECOCIRC 19_16	INLINE	--	60	120/1	--	--	--	--	--	1

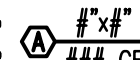
PUMP TYPES



NOTES:

1. VARIABLE SPEED ECM CIRCULATOR.

DIFFUSER, GRILLE & REGISTER SCHEDULE



TOP NO. = SIZE OF NECK
LETTER INDICATES TYPE
BOTTOM NO. = AMOUNT OF AIR

EQUIP. TAG	MANUFACTURER	MODEL	TYPE	SERVICE	MATERIAL	MAX. NC	NOTES
A	TITUS	350RL	35" FIXED DEFLECTION	SUPPLY	STEEL	30	1,2,3
B	TITUS	TDCA	LOUVER FACE (ADJ. DISCHARGE)	SUPPLY	STEEL	30	1,2,3,4
C	TITUS	33RL	HEAVY DUTY 35" FIXED DEFLECTION	RETURN	ALUMINUM	30	1,2,3

NOTES:

1. CONTRACTOR SHALL VERIFY BORDER/FRAE TYPE, SEE PLANS.
2. COLOR SELECTED BY ARCHITECT.
3. OPPOSED BLADE DAMPER.
4. PROVIDE WITH 24x24 LAY-IN FRAME AT LAY-IN CEILINGS (FIELD VERIFY).



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DUNELAND SCHOOL CORPORATION
2018 MAIN OFFICE RENOVATIONS AT:
CHESTERTON MIDDLE SCHOOL (CMS)
651 W. MORGAN AVENUE, CHESTERTON, INDIANA 46304

PROJECT NUMBER: E-003
PROJECT MANAGER: TSC
DRAWN BY: CJA
DATE FOR BIDDING: 03/28/2018

SCHEDULES
MECHANICAL



M3.00