



SEQUENCE OF OPERATION

DEVICE LISTING

TAG	DESCRIPTION
<b>NON-PACKAGED</b>	
U635-HS	EXHAUST FAN U635 ON/OFF SWITCH
U635-MM	EXHAUST FAN U635 RUN STATUS
U675-HS	EXHAUST FAN U675 HAND/OFF/AUTO SWITCH
U675-MM	EXHAUST FAN U675 RUN STATUS
U675-QA	EXHAUST FAN U675 FAULT STATUS
U620-HS	EXHAUST FAN U620 ON/OFF SWITCH
U620-MM	EXHAUST FAN U620 RUN STATUS
U675-MM	EXHAUST FAN U670 RUN STATUS
U610-TE/TT-1	MECHANICAL BAY TEMPERATURE
<b>PACKAGED</b>	
U610-HS	EXHAUST FAN U610 HAND/OFF/AUTO SWITCH
U610-TC	MUA U610 TEMPERATURE CONTROLLER
U610-MM	MUA U610 RUN STATUS
U610-QA	MUA U610 FAILURE ALARM
U610-MD	MUA U610 DAMPER
U610-ZSB	MUA U610 DAMPER CLOSE LIMIT SWITCH
U610-ZSD	MUA U610 DAMPER OPEN LIMIT SWITCH
U610-TE2	MUA U610 DISCHARGE TEMPERATURE TRANSMITTER
U610-TE3	MUA U610 FREEZE PROTECTION
U650-TE/TC	UNIT HEATER THERMOSTAT CONTROL

AREA/EQUIPMENT TAG	FUNCTION	TYPE	VOLUME (L/s)	HEAT INPUT (kW)	ELEC. LOAD (kW)
U610	MUA	DIRECT FIRED	3710	461	

AREA/EQUIPMENT TAG	FUNCTION	TYPE	VOLUME (L/s)	HEAT INPUT (kW)	ELEC. LOAD (kW)
U670	AEF	CENTRIFUGAL	830	N/A	0.187
U675	AEF	CENTRIFUGAL	2880	N/A	0.556
U635	AEF	CENTRIFUGAL	330	N/A	0.187

AREA/EQUIPMENT TAG	FUNCTION	TYPE	VOLUME (L/s)	HEAT INPUT (kW)	ELEC. LOAD (kW)
U620	AEF	CENTRIFUGAL	1025	N/A	

AREA/EQUIPMENT TAG	FUNCTION	TYPE	VOLUME (L/s)	HEAT INPUT (kW)	ELEC. LOAD (kW)
U650	UH	POWER VENTED	N/A		

GENERAL NOTES

Area/Equipment Tag Function Type Volume (L/s) Heat Input (kW) Elec. Load (kW)

**APEGN**  
Certificate of Authorization  
KGS Group  
No. 245 Date: 2011/02/10

**KGS GROUP**  
CONSULTING ENGINEERS

NO.	REVISIONS	DATE	BY
01	ISSUED FOR ADDENDUM	2011-02-10	REW
00	ISSUED FOR TENDER	2010-12-21	REW

**ALLIANCE Engineering Services Inc.**

DESIGNED BY: DDW	CHECKED BY: REW
DRAWN BY: GCN	APPROVED BY: REW
HOR. SCALE: N.T.S.	RELEASED FOR CONSTRUCTION
VERTICAL: N.T.S.	
DATE: 2009 11 17	DATE:

ENGINEER'S SEAL  
THE ORIGINAL ISSUE REV. 00 WAS STAMPED, DATED AND SIGNED BY:  
R.E. WILLMS, P.ENG  
ON 2010/12/21  
TENDER No. **UP6.2**  
FILENAME: 1-0103V-P0004-002.dwg  
PLOT DATE: 2011/02/09

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
2010 HVAC REPLACEMENT AND ASSOCIATED WORKS  
**WEWPCC**  
AREA U - UTILITY BUILDING  
PROCESS & INSTRUMENTATION DIAGRAM

SHEET 2 OF 3  
CITY DRAWING NUMBER  
1-0103V-P0004-002