## RADIANT PANEL SCHEDULE

| NO. | LOCATION | MAKE | MODEL | ENCLOSURE HEIGHT IN (mm) | # OF ROWS | CENTERS IN (mm) | CAPACITY BTUH (kw) | FLOW GPM (l/s) | THERMOFLUID | | | EWT °F (°C) | LWT °F (°C) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Y/N | % | TYPE | | | |
| RP-1 | 1:06 FAMILY CHANGE ROOM | TWA | -- | (--) | 4 | (--) | 652 (0.19) | 0.07 (0.0044) | NO | | | 120 (48.8) | 100 (37.7) | -- |
| RP-2 | 1:06 FAMILY CHANGE ROOM | TWA | -- | (--) | 4 | (--) | 652 (0.19) | 0.07 (0.0044) | NO | | | 120 (48.8) | 100 (37.7) | -- |

## WALLFIN SCHEDULE

| NO. | LOCATION | MAKE | MODEL | ENCLOSURE MODEL | ENCLOSURE MOUNTING HEIGHT ABOVE GROUND IN (mm) | LENGTH (FT) | # OF ROWS | CENTERS IN (mm) | CAPACITY BTUH (kw) | FLOW GPM (l/s) | THERMOFLUID | | | EWT °F (°C) | LWT °F (°C) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Y/N | % | TYPE | | | |
| WF-1 | 1:15 MPR | RITTLING | 1S-4 ¼ X 4 ¼ -48 ¾ ø TUBE | FS, 5-3/8" DEEP 20" HIGH | 4 (100) | 17 | 2 | -- (--) | 11,200 (--) | 1.1 (--) | NO | | | 125 (51.66) | 100 (40.6) | WALL FIN CABINETS SHALL BE C/W ALL END CAPS, CORNERS, ACCESS PANELS ETC TO PROVIDE A COMPLETE & FINISHED PRODUCT. PROVIDE WAL-TO-WALL CABINETS WHERE SHOWN ON PLANS. |
| WF-2 | 1:14A POOL DECK | RITTLING | 1S-4 ¼ X 4 ¼ -48 1" ø TUBE | FS, 5-3/8" DEEP 20" HIGH | 4 (100) | 150 | 2 | -- (--) | 96,900 (--) | 9.6 (--) | NO | | | 125 (51.66) | 100 (40.6) | WALL FIN CABINETS SHALL BE C/W ALL END CAPS, CORNERS, ACCESS PANELS ETC TO PROVIDE A COMPLETE & FINISHED PRODUCT. PROVIDE WAL-TO-WALL CABINETS WHERE SHOWN ON PLANS. |
| WF-3 | B:04 HALL | RITTLING | 1S-4 ¼ X 4 ¼ -48 ¾ ø TUBE | FS, 5-3/8" DEEP 20" HIGH | 4 (100) | 3 | 2 | -- (--) | 2,000 (--) | 0.2 (--) | NO | | | 125 (51.66) | 100 (40.6) | WALL FIN CABINETS SHALL BE C/W ALL END CAPS, CORNERS, ACCESS PANELS ETC TO PROVIDE A COMPLETE & FINISHED PRODUCT. PROVIDE WAL-TO-WALL CABINETS WHERE SHOWN ON PLANS. |
| WF-4 | B:07 HALL | RITTLING | 1S-4 ¼ X 4 ¼ -48 ¾ ø TUBE | FS, 5-3/8" DEEP 20" HIGH | 4 (100) | 1.5 | 2 | -- (--) | 1,000 (--) | 0.1 (--) | NO | | | 125 (51.66) | 100 (40.6) | WALL FIN CABINETS SHALL BE C/W ALL END CAPS, CORNERS, ACCESS PANELS ETC TO PROVIDE A COMPLETE & FINISHED PRODUCT. PROVIDE WAL-TO-WALL CABINETS WHERE SHOWN ON PLANS. |
| WF-5 | SAUNA | RITTLING | 1S-4 ¼ X 4 ¼ -48 ¾ ø TUBE | FS, 5-3/8" DEEP 20" HIGH | 4 (100) | 8 | 2 | -- (--) | 5,300 (--) | 0.5 (--) | NO | | | 125 (51.66) | 100 (40.6) | WALL FIN CABINETS SHALL BE C/W ALL END CAPS, CORNERS, ACCESS PANELS ETC TO PROVIDE A COMPLETE & FINISHED PRODUCT. PROVIDE WAL-TO-WALL CABINETS WHERE SHOWN ON PLANS. |

## POOL HEATER SCHEDULE

| NO. | LOCATION | MAKE | MODEL | HEATER CAPACITY kW | MINIMUM FLOW RATE GPM | MAXIMUM FLOW RATE GPM | UNIT WEIGHT LBS (kG) | POWER | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | EM | V/ø | FEEDER | COND | BRKR | CCT | |
| PH-1A | BASEMENT MECHANICAL ROOM, FOR POOL A (DEEP) | COATES | 36054PHS | 54 | 20 | 80 | 90 (40.8) | -- (--) | 600V/3ø | 3#4 | 1 1/4" (35MM) | 70A/3P | MD-1 | MANUFACTURER SHALL ENSURE THAT UNITS ARE FACTORY WIRED FOR THE SELECTED VOLTAGE & PHASING. COMPLETE WITH BACNET PROVIDE LOW WATER CUT OFF AND INTERNAL OUTPUT CONTROLS. |
| PH-1B | BASEMENT MECHANICAL ROOM, FOR POOL A (DEEP) | COATES | 36054PHS | 54 | 20 | 80 | 90 (40.8) | -- (--) | 600V/3ø | 3#4 | 1 1/4" (35MM) | 70A/3P | MD-1 | MANUFACTURER SHALL ENSURE THAT UNITS ARE FACTORY WIRED FOR THE SELECTED VOLTAGE & PHASING. COMPLETE WITH BACNET PROVIDE LOW WATER CUT OFF AND INTERNAL OUTPUT CONTROLS. |
| PH-1C | BASEMENT MECHANICAL ROOM, FOR POOL A (DEEP) | COATES | 36054PHS | 54 | 20 | 80 | 90 (40.8) | -- (--) | 600V/3ø | 3#4 | 1 1/4" (35MM) | 70A/3P | MD-1 | MANUFACTURER SHALL ENSURE THAT UNITS ARE FACTORY WIRED FOR THE SELECTED VOLTAGE & PHASING. COMPLETE WITH BACNET PROVIDE LOW WATER CUT OFF AND INTERNAL OUTPUT CONTROLS. |
| PH-2A | BASEMENT MECHANICAL ROOM, FOR POOL B (SHALLOW) | COATES | 36054PHS | 54 | 20 | 80 | 90 (40.8) | -- (--) | 600V/3ø | 3#4 | 1 1/4" (35MM) | 70A/3P | MD-1 | MANUFACTURER SHALL ENSURE THAT UNITS ARE FACTORY WIRED FOR THE SELECTED VOLTAGE & PHASING. COMPLETE WITH BACNET PROVIDE LOW WATER CUT OFF AND INTERNAL OUTPUT CONTROLS. |
| PH-2B | BASEMENT MECHANICAL ROOM, FOR POOL B (SHALLOW) | COATES | 36054PHS | 54 | 20 | 80 | 90 (40.8) | -- (--) | 600V/3ø | 3#4 | 1 1/4" (35MM) | 70A/3P | MD-1 | MANUFACTURER SHALL ENSURE THAT UNITS ARE FACTORY WIRED FOR THE SELECTED VOLTAGE & PHASING. COMPLETE WITH BACNET PROVIDE LOW WATER CUT OFF AND INTERNAL OUTPUT CONTROLS. |
| PH-3 | BASEMENT MECHANICAL ROOM, FOR HOT TUB | COATES | 36057PHS | 57 | 20 | 80 | 90 (40.8) | -- (--) | 600V/3ø | 3#4 | 1 1/4" (35MM) | 70A/3P | MD-1 | MANUFACTURER SHALL ENSURE THAT UNITS ARE FACTORY WIRED FOR THE SELECTED VOLTAGE & PHASING. COMPLETE WITH BACNET PROVIDE LOW WATER CUT OFF AND INTERNAL OUTPUT CONTROLS. |

## CABINET UNIT HEATER SCHEDULE

| NO. | LOCATION | MAKE | MODEL | AIRFLOW CFM (l/s) | EXTERNAL STATIC PRESS. IN. $H_2O$ (pa) | HEATING CAPACITY BTUH (kw) | THERMOFLUID | | | FLOW GPM (l/s) | EWT °F (°C) | LWT °F (°C) | FLUID PRESSURE DROP IN. $H_2O$ (pa) | POWER | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Y/N | % | TYPE | | | | | V/ø | FEEDER | COND | BRKR | CCT | |
| CUH-1A | 1:01 VESTIBULE | DAIKIN | FHVS108 | 834 (393) | -- (--) | 30,665 (9) | YES | 50% | PG | 3.2 (0.2) | 120 (48.8) | 100 (37.7) | 4.8 (1,194) | 120V/1ø | 2#12 | 3/4" (21MM) | 15A/1P | EXISTING PANEL | -- |
| CUH-1B | 1:01 VESTIBULE | DAIKIN | FHVS108 | 834 (393) | -- (--) | 30,665 (9) | YES | 50% | PG | 3.2 (0.2) | 120 (48.8) | 100 (37.7) | 4.8 (1,194) | 120V/1ø | 2#12 | 3/4" (21MM) | 15A/1P | EXISTING PANEL | -- |
| CUH-2 | ST-1 STAIR | DAIKIN | FHVS108 | 834 (393) | -- (--) | 30,665 (9) | YES | 50% | PG | 3.2 (0.2) | 120 (48.8) | 100 (37.7) | 4.8 (1,194) | 120V/1ø | 2#12 | 3/4" (21MM) | 15A/1P | EXISTING PANEL | -- |
| CUH-3 | ST-2 STAIR | DAIKIN | FHVS108 | 834 (393) | -- (--) | 30,665 (9) | YES | 50% | PG | 3.2 (0.2) | 120 (48.8) | 100 (37.7) | 4.8 (1,194) | 120V/1ø | 2#12 | 3/4" (21MM) | 15A/1P | EXISTING PANEL | -- |

## ELECTRIC HEATING COIL SCHEDULE

| NO. | LOCATION | MAKE | MODEL | AIRFLOW CFM (l/s) | HEATING COIL DATA | | | | | | CONTROLS | | | | | | | FLA | MCA | MOCP | POWER | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | TOTAL kW | EAT DB °F (°C) | LAT DB °F (°C) | SCR (BY MECHANICAL) | | | INTERLOCK | | | F.A. SHUT DOWN | DATA CONN. | NOTES | PANEL | | | | EM | V/ø | FEEDER | COND | BRKR | CCT | |
| | | | | | | | | TYPE | STAGES | REMOTE FEEDER | SUPPLY | INSTALL | WITH | | | | | | | | | | | | | | |
| HC-16 | EXISTING RTU OPTIONAL HEATING COIL SLOT | LENNOX | TIEH0150-Y | 1760 (--) | 15 | 65 (--) | 92 (--) | PACK | FULL | | MECHANICAL | MECHANICAL | EXISTING RTU | -- | -- | -- | | -- | -- | -- | -- (--) | 600V/3ø | 3#12 RW90 | 3/4" (21MM) | 20A/3P | PANEL 100 | C/W HIGH THERMAL CUT OUT, INTEGRATED SCR CONTROLLER, AIR FLOW AND TEMPERATURE SENSORS, AND ALL NECESSARY COMPONENTS TO INSTALL IN EXISTING UNIT OPTIONAL SLOT. |

## HRV SCHEDULE

| NO. | LOCATION | MAKE | MODEL | AIRFLOW CFM (l/s) | EXTERNAL STATIC PRESS. IN. $H_2O$ (pa) | PROVIDE PREHEAT COIL Y/N | MINIMUM SEASONAL EFFICIENCY % | # OF FANS | UNIT WEIGHT LBS (kG) | CONTROLS | | | | | | | FLA | MCA | MOCP | POWER | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | INTERLOCK | | | F.A. SHUT DOWN | DATA CONN. | NOTES | PANEL | | | | EM | V/ø | FEEDER | COND | BRKR | CCT | |
| | | | | | | | | | | SUPPLY | INSTALL | WITH | | | | | | | | | | | | | | |
| HRV-2 | ABOVE MPR | LIFEBREATH | MAX 205 | 165 (78) | 0.5 (125) | PROVIDED SEPARATELY | 70 | 2 | 57 (--) | MECHANICAL | MECHANICAL | HC-1 & WF-1 | -- | -- | -- | | 1.4 | | | -- (--) | 120V/1ø | 2#12 | 3/4" (21MM) | 15A/1P | EXIST. PANEL M | CONTROLS CONTRACTOR TO PROVIDE SEPARATE CONTROLS FOR HC-1 AND WF-1. HC-1 TO PREVENT DEFROST MODE. COMPLETE WITH FILTER MONITORS. |

## HEATING COIL SCHEDULE

| NO. | LOCATION | MAKE | MODEL | AIRFLOW CFM (l/s) | MAXIMUM AIRFLOW PRESSURE DROP IN. (pa) | THERMOFLUID | | | HEATING COIL DATA | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Y/N | % | TYPE | WATER FLOW GPM (l/s) | TOTAL BTUH (kW) | EAT DB °F (°C) | LAT DB °F (°C) | EWT °F (°C) | LWT °F (°C) | MAX WATER PRESSURE DROP IN. (pa) | |
| HC-1 | MPR HRV-2 | DAIKIN | -- | 165 (78) | 0.2 (82) | YES | 50 | PG | 1.29 (--) | 12,866 (--) | -40 (-40) | 32.2 (0.1) | 120 (48.9) | 100 (37.7) | 4 (996) | -- |
| HC-2 | MAIN FLOOR DUCTWORK | DAIKIN | -- | 317 (150) | 0.33 (82) | NO | | | 1.4 (--) | 13,695 (--) | 60 (15.5) | 100 (37.8) | 125 (51) | 105 (40) | 4 (996) | -- |
| HC-3 | MAIN FLOOR DUCTWORK | DAIKIN | -- | 317 (150) | 0.33 (82) | NO | | | 1.4 (--) | 13,695 (--) | 60 (15.5) | 100 (37.8) | 125 (51) | 105 (40) | 4 (996) | -- |
| HC-4 | MAIN FLOOR DUCTWORK | DAIKIN | -- | 317 (150) | 0.33 (82) | NO | | | 1.4 (--) | 13,695 (--) | 60 (15.5) | 100 (37.8) | 125 (51) | 105 (40) | 4 (996) | -- |
| HC-5 | MAIN FLOOR DUCTWORK | DAIKIN | -- | 317 (150) | 0.33 (82) | NO | | | 1.4 (--) | 13,695 (--) | 60 (15.5) | 100 (37.8) | 125 (51) | 105 (40) | 4 (996) | -- |
| HC-6 | MAIN FLOOR DUCTWORK | DAIKIN | -- | 317 (150) | 0.33 (82) | NO | | | 1.4 (--) | 13,695 (--) | 60 (15.5) | 100 (37.8) | 125 (51) | 105 (40) | 4 (996) | -- |
| HC-7 | MAIN FLOOR DUCTWORK | DAIKIN | -- | 317 (150) | 0.33 (82) | NO | | | 1.4 (--) | 13,695 (--) | 60 (15.5) | 100 (37.8) | 125 (51) | 105 (40) | 4 (996) | -- |
| HC-8 | MAIN FLOOR DUCTWORK | DAIKIN | -- | 275 (130) | 0.33 (82) | NO | | | 1.2 (--) | 11,880 (--) | 60 (15.5) | 100 (37.8) | 125 (51) | 105 (40) | 4 (996) | -- |
| HC-9 | MAIN FLOOR DUCTWORK | DAIKIN | -- | 317 (150) | 0.33 (82) | NO | | | 1.4 (--) | 13,695 (--) | 60 (15.5) | 100 (37.8) | 125 (51) | 105 (40) | 4 (996) | -- |
| HC-10 | MAIN FLOOR DUCTWORK | DAIKIN | -- | 286 (135) | 0.33 (82) | NO | | | 1.3 (--) | 12,355 (--) | 60 (15.5) | 100 (37.8) | 125 (51) | 105 (40) | 4 (996) | -- |
| HC-11 | MAIN FLOOR DUCTWORK | DAIKIN | -- | 286 (135) | 0.33 (82) | NO | | | 1.3 (--) | 12,355 (--) | 60 (15.5) | 100 (37.8) | 125 (51) | 105 (40) | 4 (996) | -- |
| HC-12 | MAIN FLOOR DUCTWORK | DAIKIN | -- | 286 (135) | 0.33 (82) | NO | | | 1.3 (--) | 12,355 (--) | 60 (15.5) | 100 (37.8) | 125 (51) | 105 (40) | 4 (996) | -- |
| HC-13 | MAIN FLOOR DUCTWORK | DAIKIN | -- | 339 (160) | 0.33 (82) | NO | | | 1.5 (--) | 14,644 (--) | 60 (15.5) | 100 (37.8) | 125 (51) | 105 (40) | 4 (996) | -- |
| HC-14 | BASEMENT DUCTWORK | DAIKIN | -- | 310 (--) | 0.33 (82) | NO | | | 0.6 (0.037) | 6,640 (--) | 60 (15.5) | 75 (23.8) | 125 (51) | 105 (40) | 4 (996) | -- |
| HC-15 | BASEMENT DUCTWORK | DAIKIN | -- | 255 (120) | 0.33 (82) | NO | | | 0.5 (0.031) | 5,510 (--) | 60 (15.5) | 75 (23.8) | 125 (51) | 105 (40) | 4 (996) | -- |
| HC-17 | HRV-1 SUPPLY DUCT ABOVE POOL | DAIKIN | -- | 9600 (4528) | 0.33 (82) | YES | 50% | PG | 50 (3.1) | 500,000 (--) | 49 (--) | 82 (27.8) | 120 (51) | 100 (40) | 4 (996) | -- |
| HC-18 | MPR HRV-2 | DAIKIN | -- | 165 (78) | 0.2 (82) | YES | 50 | PG | 0.45 (--) | 4,455 (--) | 50 (--) | 75 (--) | 120 (48.9) | 100 (37.7) | 4 (996) | -- |

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
**MCW Consultants Ltd.**
**No. 7183**

THIS IS A PRINT OF A DOCUMENT THAT HAS BEEN ELECTRONICALLY AUTHENTICATED WITH TECHNOLOGY AUTHORIZED BY THE EGM. THE ORIGINAL IS IN ELECTRONIC FORM.


MCW Consultants Ltd.
210-1821 Wellington Avenue
Winnipeg, Manitoba, R3H 0G4
Phone - (204) 775-7900
mcw_wpg@mcw.com
www.mcw.com


13600

| No. | Date | Issue / Revision | By |
|---|---|---|---|
| 0 | 22/12/2023 | ISSUED FOR CONSTRUCTION | DG/JVL |

Drawn By: EJ
Printing Date: 22/12/2023

PROVINCE OF MANITOBA 2023-12-21 K.E. ISAAK REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ONLY

PROVINCE OF MANITOBA J.E. VAN LEEUWEN Member 38282 REGISTERED PROFESSIONAL ENGINEER 2023-12-21
MECHANICAL ONLY


Drawings and specifications, as instruments of service are the property of the architects, the copyright in the same being reserved to them. No reproduction may be made without the permission of the architects, and when made, must bear their names. All prints to be returned.

The contractor is to verify dimensions and data noted herein with conditions on the site and is held responsible for reporting any discrepancy to the architects for adjustment.



LM Architectural Group
500-136 Market Ave
Winnipeg Manitoba Canada R3B 0P4
t: (204) 942.0691 f: (204) 943.8676
www.lm-architects.com


**CITY OF WINNIPEG**
**BONIVITAL POOL RENEWAL**

1215 Archibald St, Winnipeg, MB.

MECHANICAL AND ELECTRICAL SCHEDULES

**ME1.3**

Comm. No.: 2129 Sheet:

Plotted: am