A1 SIZE - 594mm x 841mm

G670-FE

CONTROL PANEL

A ON STREAM

R BACKWASH

HS ON/OFF

HS MANUAL START

AUTO BACKWASH FILTER

PI 0-1379 kPa

100ø

PI 0-1379 kPa

100ø

IAS 2

E/P G670 VY

MOTOR RUN

0-200 kPa G670 PG

DRAIN TO G257-BS BAR SCREEN INFLUENT CHANNEL 1-0102G-G-A0007

100ø

SEE I-1

G670 HC

MANUAL SETPOINT

1034 kPa

20ø

02

TO G603-HE 1-0102G-G-A0094

50ø, 1.9 L/s FW

DRAIN TO G257-BS BAR SCREEN INFLUENT CHANNEL 1-0102G-G-A0007

100ø, 1.7°C FW

12ø

FROM FLUSHING WATER PIPING 1-0102G-G-A0019 FW 100ø 12ø

G670 HV 1

N.C.

G670 FV

100ø, 12.8°C

-40-70°C G670 TG 3

G670 TSL 1 <-0.5°C

G670 FSL 1

MOTOR RUN

FROM G603-HE 1-0102G-A0094 FW 50ø

-40-50°C G670 TG 2

A G670 FAL 1

A G670 TAL 1

G670 KY 1

O/O G670 HS 2

DI SA G670 QF

TRIP

A G670 FAL 2

G670 KY 2

FCV

G670 HV 2

MOTOR RUN

FROM AIR HANDLING UNIT B684-AHU GLYCOL COIL 1-0102B-G-A0019 GR 75ø

FROM AIR HANDLING UNIT B681-AHU GLYCOL COIL 1-0102B-G-A0016 GR 75ø

FROM AIR HANDLING UNIT G683-AHU GLYCOL COIL 1-0102G-G-A0027 GR 75ø

FROM AIR HANDLING UNIT G684-AHU GLYCOL COIL 1-0102G-G-A0028 GR 75ø

100ø

-40-50°C G670 TG 1

G670 HV 4

100ø

G670-HX GLYCOL/FLUSHING WATER HEAT EXCHANGER

100ø

207 kPa

EXPANSION TANK

GLYCOL FILL CONNECTION V-27

-40-70°C G670 TG 4

25ø 25ø

AIR ELIMINATOR

G670 HV 5

0-400 kPa G670 PG 1

12ø

LOS G670 HS 1

R G670 MM

MCC-2G R G670 MM

DI SA G670 MM

0-1400 kPa G670 PG 2

G670 FSL 2

75ø 100ø

G670 HV 6

100ø

100ø

TO AIR HANDLING UNIT B684-AHU GLYCOL COIL 3.7 L/s 75ø GS 1-0102B-G-A0019

TO AIR HANDLING UNIT B681-AHU GLYCOL COIL 3.9 L/s 75ø GS 1-0102B-G-A0016

TO AIR HANDLING UNIT G683-AHU GLYCOL COIL 3.1 L/s 75ø GS 1-0102G-G-A0027

TO AIR HANDLING UNIT G684-AHU GLYCOL COIL 3.9 L/s 75ø GS 1-0102G-G-A0028

G670-GP
15 kW
575V, 3ø
1760 RPM
16.7 L/s @ 32.3 m

INCONSISTENCIES

I-1 G670-HC IS CURRENTLY DESIGNATED AS G670-PRV.

NOTES:

1. THIS DRAWING SUPERSEDES PART OF DRAWING SEP-866.
2. ALL INSTRUMENTS SHOWN IN AN AUXILLIARY LOCATION ARE LOCATED IN GCP-9.

DRAWING NUMBER	REFERENCE DRAWINGS
1-0102A-D-A0001	PROCESS & INSTRUMENT DIAGRAMS LEGEND & DETAILS

APEGM Certificate of Authorization SNC-Lavalin Inc. No. 4489

NO.	REVISIONS	DATE	DESIGN	CHECK
03	ISSUED FOR TENDER, BID OPP. 42-2013	2013/01/15	TS	CJR
02	ISSUED FOR TENDER, BID OPP. 545-2012	2012/10/11	TS	CJR
01	ORIGINAL DWG NO. WAS 1-0102G-G-A0022-001	2010/07/26	-	DC
00	ISSUED FOR CITY USE	2006/11/28	-	EFB

SNC-LAVALIN INC.
148 Nature Park Way
Winnipeg, MB, Canada R3P 0X7
204-786-8080

DESIGNED BY:	CHECKED BY:
EXISTING	EFB
DRAWN BY: DAH/EFB	APPROVED BY: CJR
SCALE: NTS	RELEASED FOR CONSTRUCTION BY:
DATE: 2005/11/08	DATE:
CONSULTANT NO.: 112577-0116-49DD-0128	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
T.M. CHURCH Member 32682
REGISTERED PROFESSIONAL ENGINEER
Jan. 16 2013
Rev. 03 Changes Only

Winnipeg THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
PUMP & SCREEN BUILDING
PROCESS & INSTRUMENTATION DIAGRAM
GLYCOL HEAT RECOVERY
G670-GP

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0102G-A0022	001	03	A1

1-0102G-A0022-001-03.dwg

LAST SWE: 2013/01/16 - 9:57am
PATH: M:\112577\0116\ENG\48I&C\DD - General DWG\1-0102G-A0022-001-03.dwg