

**MCC - 1T**

MOLDED CASE SWITCH 200A, 600V	T600-SF 25A-3P BREAKER MAKE UP AIR UNIT SUPPLY FAN 7.5kW	T600-EF 20A-3P BREAKER MAKE UP AIR UNIT EXHAUST FAN 5.6kW	T640-CA 30A-3P BREAKER AIR COMP. 2x5.6kW	XFMR-TAA 40A-3P BREAKER TRANSFMR 30kVA	MOLDED CASE TIE SWITCH 200A, 600V
T110-DAF CONTROL PANEL 100A-3P	SPACE	SPACE	SPACE	SPACE	SPACE
T125-SBP 20A-3P BREAKER SUBNAT. PUMP No.1 7.5kW	T131-POF 15A-3P BREAKER DAF POLYMER PUMP No.1 .375 kW	T665-GP MCP SIZE 1 GLYCOL FEED PUMP 3.75 kW	SPACE	SPACE	SPACE
T136-POF 15A-3P BREAKER CEPT POLYMER PUMP No.1 0.75 kW	T141-MP 15A-3P BREAKER FeC13 PUMP No.1 0.75kW	T680-DWP T685-DWP 15A-3P BREAKER DOMESTIC WATER PUMP 2x1.5kW	SPACE	SPACE	SPACE
T143-MP 15A-3P BREAKER FeC13 PUMP No.1 0.75kW	T130-POL 30A-3P BREAKER PRIMARY CLARIFIER POLYMER SYSTEM 1 3.75 kW	SPACE	SPACE	SPACE	SPACE

**MCC - 2T**

MOLDED CASE SWITCH 200A, 600V	T605-SF 20A-3P BREAKER MAKE UP AIR UNIT SUPPLY FAN 5.6 kW	T605-EF 15A-3P BREAKER MAKE UP AIR UNIT EXHAUST FAN 3.75 kW	T700-SMP 15A-3P BREAKER SUMP PUMP 2x0.37 kW	WELDING OUTLET 30A 3P	SPACE
T120-DAF CONTROL PANEL 100A-3P	T610-AHU MCP SIZE 1 AIR HANDLING UNIT FAN 1.5 kW	T610-AHU 15A-3P BREAKER AHU HEATER 4 kW	SPACE	SPACE	SPACE
T126-SBP 20A-3P BREAKER SUBNAT. PUMP No.1 7.5kW	T132-POF 15A-3P BREAKER DAF POLYMER PUMP No. 2 .375 kW	T670-GP MCP SIZE 1 GLYCOL FEED PUMP 3.75 kW	SPACE	SPACE	SPACE
T137-POF 15A-3P BREAKER CEPT POLYMER PUMP No.2 0.75 kW	T142-MP 15A-3P BREAKER FeC13 PUMP No.2 0.75kW	SPACE	SPACE	SPACE	SPACE
T144-MP 15A-3P BREAKER FeC13 PUMP No.2 0.75kW	T135-POL 30A-3P BREAKER PRIMARY CLARIFIER POLYMER SYSTEM 2	SPACE	SPACE	SPACE	SPACE

PANEL SCHEDULE										
PANEL TAA										
DESCRIPTION	LOAD	BKR	CCT	A	B	C	CCT	BKR	LOAD	DESCRIPTION
Lighting - DAF		15	1	*			2	15	3HP	Overhead Door Opener
Lighting - DAF		15	3		*		4	3P		3/C#12
Lighting - Polymer		15	5			*	6			
Lighting - Ferric Chloride Area		15	7	*			8	15	3HP	Overhead Door Opener
Lighting - Electrical Room		15	9		*		10	3P		3/C#12
Lighting - Mechanical Room		15	11			*	12			
Lighting - Exterior		15	13	*			14	20		Overhead Crane
Lighting - Exterior		15	15	*			16	3P		3/C#10
Spare			17			*	18			Space
Spare			19	*			20			Space
Spare			21	*	*		22			Space
Spare			23		*		24			Space
Spare			25	*			26			Space
Spare			27	*	*		28			Space
Spare			29	*	*		30			Space
Spare			31	*			32			Space
Spare			33	*	*		34			Space
Spare			35	*	*		36			Space
Spare			37	*			38	60A	45kVA	Transformer XFMR-TA
Spare			39	*	*		40	3P		3/C#6
Spare			41		*		42			

Voltage: 347/600V/3Ø/4W Feeder: 3/C #8

Mains: 225A Main Breaker: N/A

Location: DAF Electrical Room Power Source: XFMR-TAA

Mounting: Surface

PANEL SCHEDULE										
Panel TA										
DESCRIPTION	LOAD	BKR	CCT	A	B	C	CCT	BKR	LOAD	DESCRIPTION
Receptacle	2	15	1	*			2	15		Receptacle - BMS
Receptacle	2	15	3		*		4	15		Receptacle
Receptacle	3	15	5		*		6	15		Receptacle
Receptacle	3	15	7	*			8	20		Condensing Unit T630-CU
Receptacle	3	15	9	*	*		10	3P		
Receptacle	3	15	11		*		12			
Receptacle - Glycol Feed Tank	15	13	*				14			Spare
Natural Gas Boiler T650-GH	20	15	*	*			16	15		Hot Water Unit Heater T615-UH
Natural Gas Boiler T655-GH	20	17	*	*			18	3P		
T111-MD1, T112-MD1	15	19	*				20			
T600-MD1, T600-MD2	15	21	*	*			22	15		Hot Water Unit Heater T620-UH
T610-MD1, T610-MD2	15	23	*	*			24	3P		
Control valves T600 and T605-MUA	15	25	*				26			
Flow Transmitter T131-FIT	15	27	*	*			28	15		Flow Transmitter T132-FIT
Flow Transmitter T127-FIT	15	29	*	*			30	15		Flow Transmitter T136-FIT
Level Transmitter T111-LIT	15	31	*				32	15		Level Transmitter T121-LIT
Level Transmitter T140-LIT	15	33	*	*			34	15		Spare
Spare	15	35	*	*			36	15		Spare
Spare	15	37	*	*			38	-		Space
Spare	15	39	*	*			40	-		Space
Spare	15	41	*	*			42	-		Space

Voltage: 120/208V/3Ø/4 wire Feeder: 3/C#2/0

Mains: 225A Main Breaker: N/A

Location: DAF Electrical Room 202 Power Source: Transfromer XFMR-TA

Mounting: Surface

- DRAWING NOTES**
- MOTOR CONTROL CENTRES 1T & 2T
- DAF T110 - SINGLE POWER CONNECTION TO PACKAGE UNIT SUPPLIED BY DIVISION 11. DIVISION 11 TO PROVIDE VFD FOR DAF SKIMMER DRIVE. WIRE AND CONNECTION TO CONTROL PANEL BY DIVISION 16.
  - DAF T120 - SINGLE POWER CONNECTION TO PACKAGE UNIT SUPPLIED BY DIVISION 11. DIVISION 11 TO PROVIDE VFD FOR DAF SKIMMER DRIVE, WIRE AND CONNECTION TO CONTROL PANEL BY DIVISION 16.
  - PRIMARY CLARIFIER AND DAF POLYMER SYSTEMS 1 & 2 - SINGLE POWER CONNECTION TO PACKAGE UNIT SUPPLIED BY DIVISION 11. WIRE AND CONNECTION TO CONTROL PANEL BY DIVISION 16.
  - AIR COMPRESSOR T640-CA SHALL BE COMPLETE WITH STARTING EQUIPMENT PROVIDED WITH THE COMPRESSOR UNITS. DIVISION 16 TO WIRE AND CONNECT CONTROL PANEL.



B.M. ELEV.					
DESIGNED BY: GSN		CHECKED BY: PS		DRAWN BY: ERC	
APPROVED BY: JEH		APPROVED BY: JEH		HOR. SCALE: AS NOTED	
DATE: 2005/12/19		DATE: 2006/04/26		VERTICAL SCALE:	
NO. REVISIONS		DATE		BY	

<p>A Tyco International Ltd. Company</p>	ENGINEER'S SEAL	<p>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION</p>
	ORIGINAL SIGNED BY P. STRYK 2006/04/26	
CONSULTANT DRAWING NO. TE2.01		WEWPC BIOLOGICAL NUTRIENT REMOVAL UPGRADE CONTRACT 3 ELECTRICAL AREA T - DAF THICKENER BUILDING DETAILS