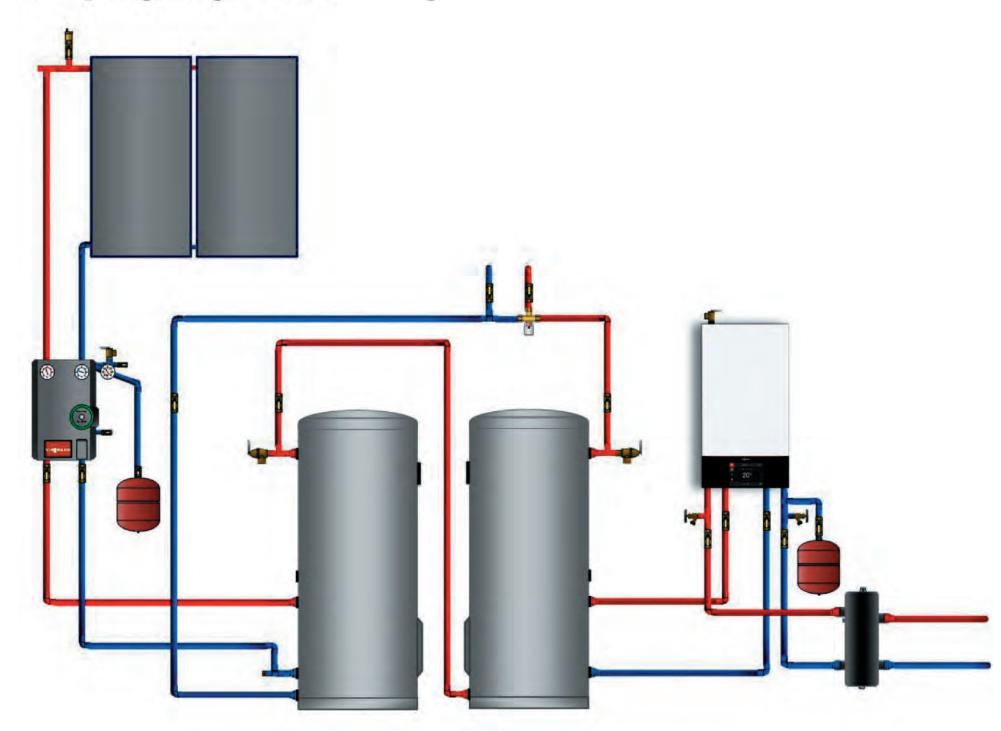


Vitosol Sample Piping Layout Drawings



For Discussion Purposes Only



Vitocell 300 Series

DHW Tank

DHW

DCW

To DHW connections on boiler

PRV Solar-Divicon Expansion

Recirc Thermostatic DN20B/DN25B System Mixing Valve Tank

Important Notes Regarding Solar Thermal Systems:

- Under NO circumstance is plastic pipe or galvanized pipe to be used on closed loop solar thermal systems.
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Overflow Container

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	LEGEND
SYMBOLS	DESCRIPTION
	SOLAR WATER SUPPLY PIPE
	SOLAR WATER RETURN PIPE
	DOMESTIC COLD WATER PIPE
	DOMESTIC HOT WATER PIPE
	DOMESTIC COLD WATER PIPE
	DOMESTIC HOT WATER RECIRC. PIPE
內	ISOLATION VALVE
Ŕ	CIRCUIT SETTER
Ŋ	WYE STRAINER
И	CHECK VALVE
Ž	PRESSURE RELIEF VALVE
×	ANTISCALD / TEMPERING VALVE
Ţ	TEMPERATURE SENSOR
-⊘ P	PRESSURE GUAGE
-⊙⊺	TEMPERING GAUGE

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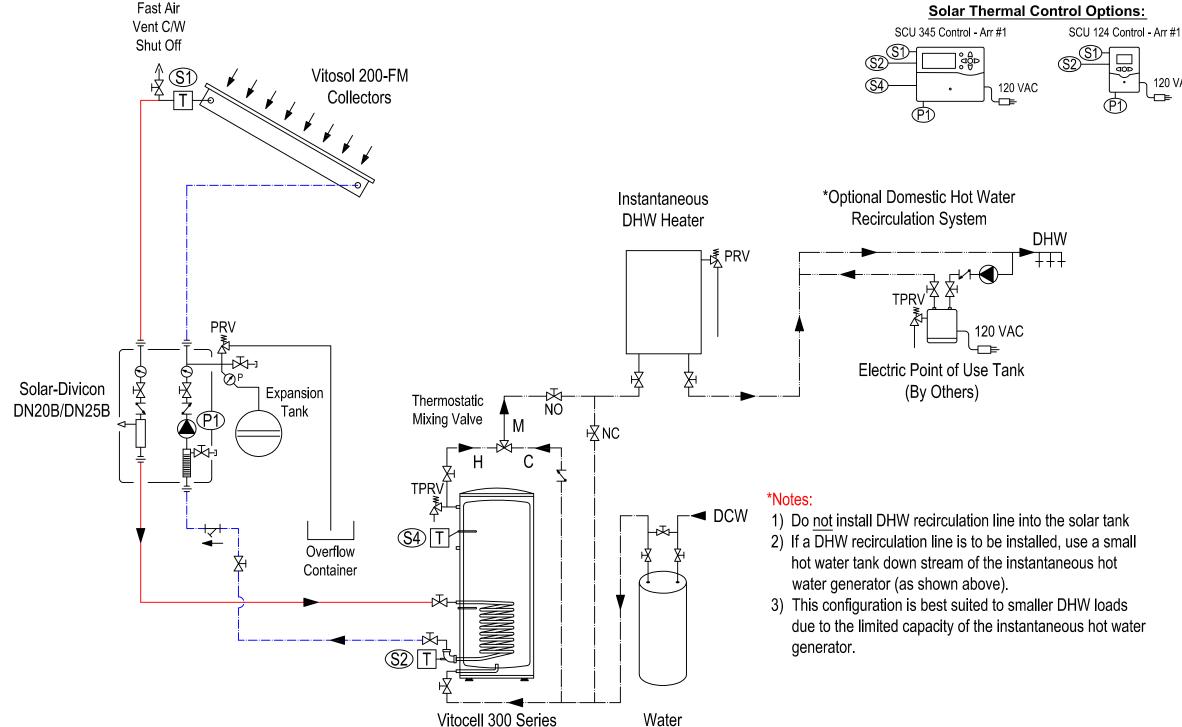
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Important Notes Regarding Solar Thermal Systems:

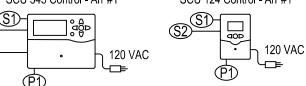
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Solar Tank

Water

Softener

Solar Thermal Control Options:



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SYMBOLS	DESCRIPTION
	SOLAR WATER SUPPLY PIPE
	SOLAR WATER RETURN PIPE
	DOMESTIC COLD WATER PIPE
	DOMESTIC HOT WATER PIPE
	DOMESTIC COLD WATER PIPE
—…—	DOMESTIC HOT WATER RECIRC. PIPE
丛	ISOLATION VALVE
ЬŢ	CIRCUIT SETTER
À	WYE STRAINER
И	CHECK VALVE
w₽Z	PRESSURE RELIEF VALVE
图	ANTISCALD / TEMPERING VALVE
Ţ	TEMPERATURE SENSOR
-⊘ P	PRESSURE GUAGE
-⊙⊺	TEMPERING GAUGE

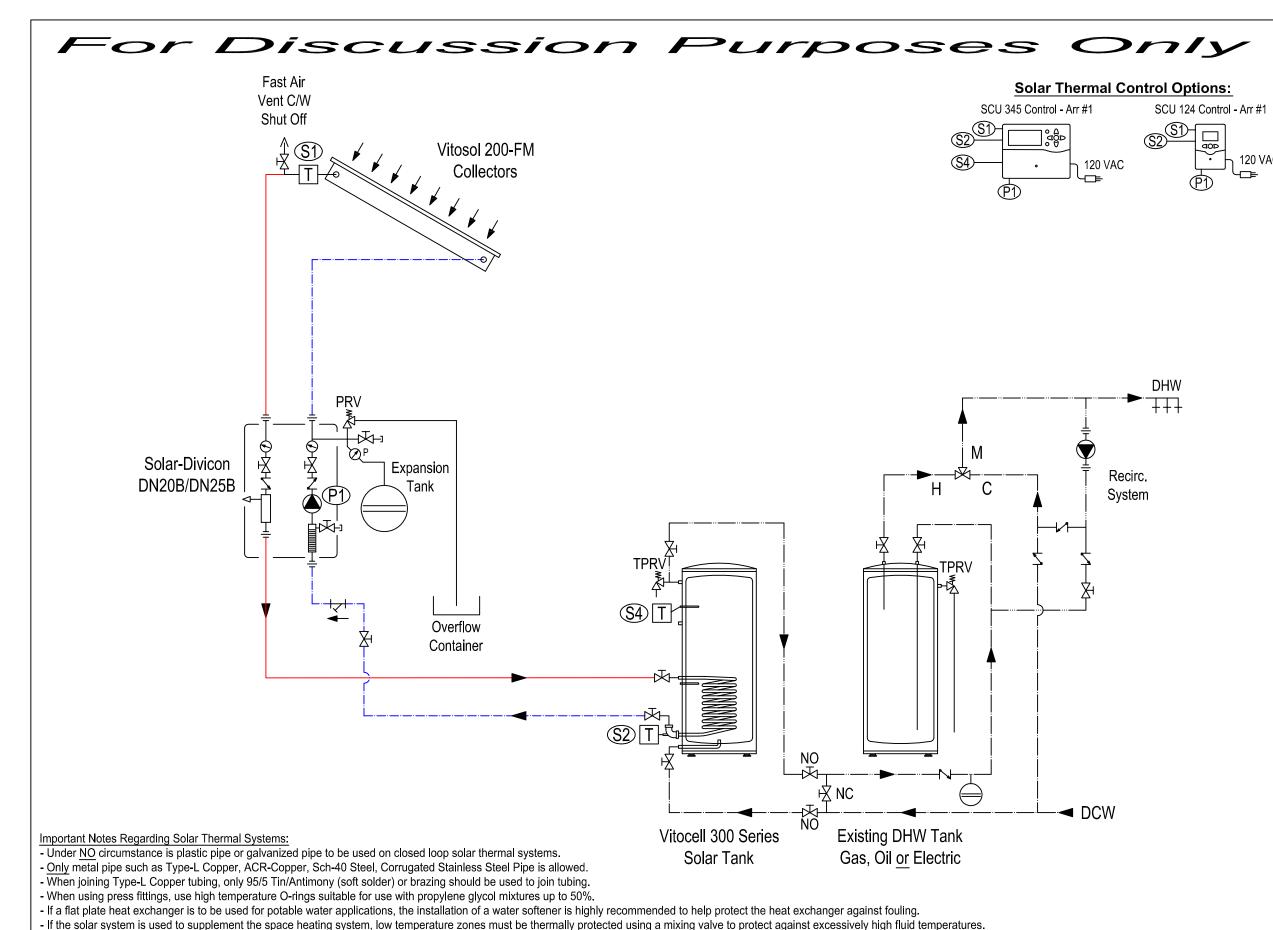
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	DOMESTIC HOT WATER PIPE
—· —	DOMESTIC COLD WATER PIPE
	DOMESTIC HOT WATER RECIRC. PIPE
×	ISOLATION VALVE
以	CIRCUIT SETTER
K	WYE STRAINER
N	CHECK VALVE
₽₩	PRESSURE RELIEF VALVE
×	ANTISCALD / TEMPERING VALVE
T	TEMPERATURE SENSOR
- ⊘ P	PRESSURE GUAGE

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TEMPERING GAUGE

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Solar Thermal Control Options: Fast Air SCU 345 Control - Arr #2 Vent C/W Shut Off Vitosol 200-FM 120 VAC Collectors Tank Mixing Pump

DHW

HT.

Recirc

System

以 NC

Thermostatic

Mixing Valve

Important Notes Regarding Solar Thermal Systems:

Solar-Divicon

DN20B/DN25B

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PRV

_ _ _ _ P

Expansion

Tank

Overflow

Container

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Vitocell 300 Series

Solar Tank

S5 T

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	LEGEND				
SYMBOLS	DESCRIPTION				
	SOLAR WATER SUPPLY PIPE				
	SOLAR WATER RETURN PIPE				
	DOMESTIC COLD WATER PIPE				
	DOMESTIC HOT WATER PIPE				
—·—	DOMESTIC COLD WATER PIPE				
	DOMESTIC HOT WATER RECIRC. PIPE				
內	ISOLATION VALVE				
Ŕ	CIRCUIT SETTER				
Ą	WYE STRAINER				
И	CHECK VALVE				
w₽ZJ	PRESSURE RELIEF VALVE				
图	ANTISCALD / TEMPERING VALVE				
Ţ	TEMPERATURE SENSOR				
- ⊘ P	PRESSURE GUAGE				
-⊙⊺	TEMPERING GAUGE				

To DHW

connections

on boiler

DCW

TPRV

T (\$3)

Vitocell 300 Series

DHW Tank

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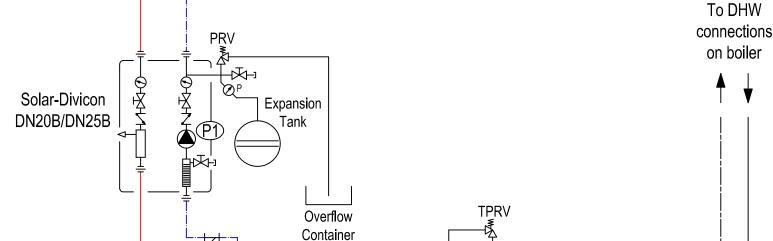
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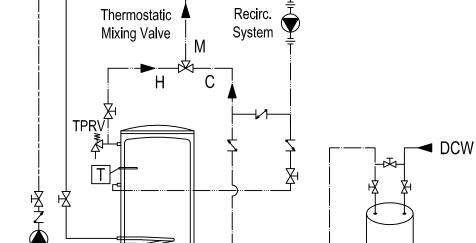
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Vitocell 300 Series

DHW Tank

DHW

Water

Softener

Important Notes Regarding Solar Thermal Systems:

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S3

Flat Plate

Heat Exchanger

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Solar

Storage Tank

T (\$4)

T (S2)

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120 VAC

	LEGEND				
SYMBOLS	DESCRIPTION				
	SOLAR WATER SUPPLY PIPE				
	SOLAR WATER RETURN PIPE				
	DOMESTIC COLD WATER PIPE				
	DOMESTIC HOT WATER PIPE				
— ·—	DOMESTIC COLD WATER PIPE				
	DOMESTIC HOT WATER RECIRC. PIPE				
×	ISOLATION VALVE				
岗	CIRCUIT SETTER				
\forall	WYE STRAINER				
И	CHECK VALVE				
₩	PRESSURE RELIEF VALVE				
×	ANTISCALD / TEMPERING VALVE				
Ŧ	TEMPERATURE SENSOR				
- ⊘P	PRESSURE GUAGE				
<u>-</u> ⊙⊤	TEMPERING GAUGE				

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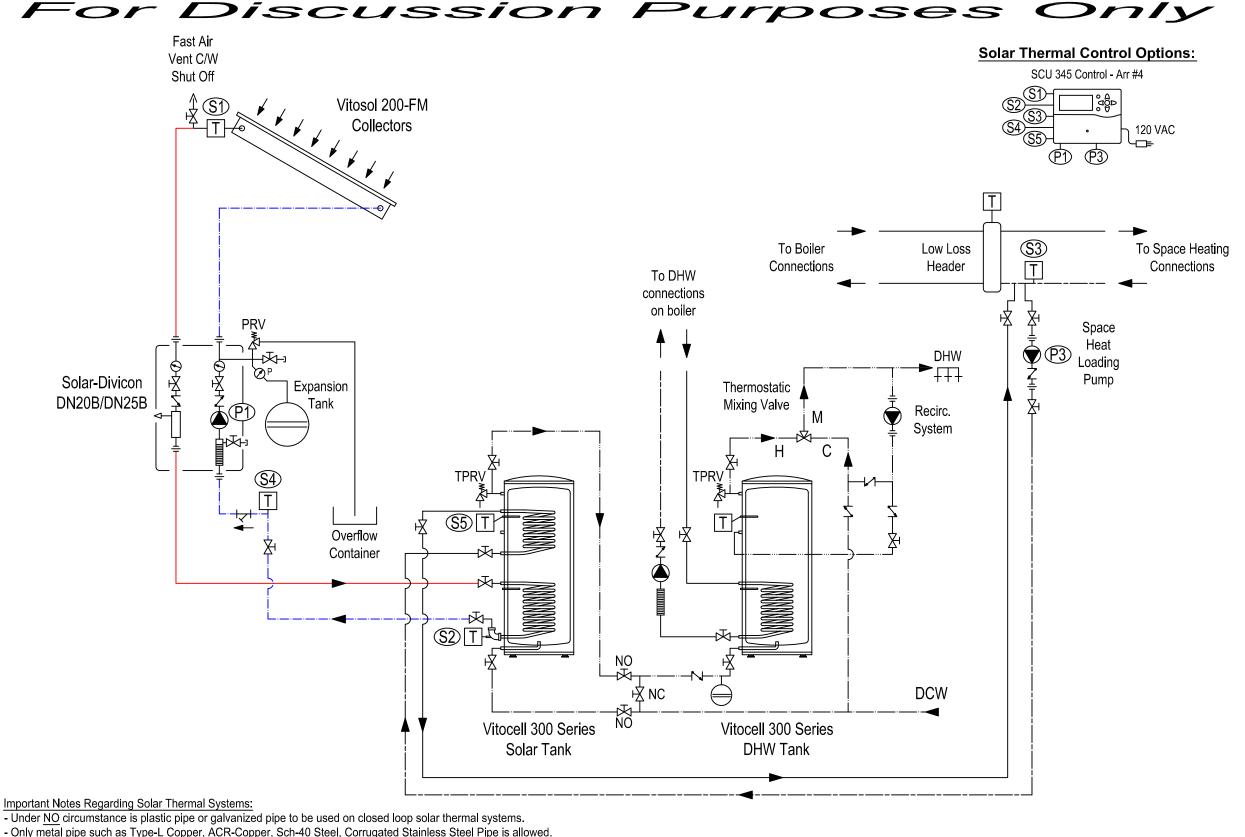
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	DOMESTIC HOT WATER RECIRC. PIPE
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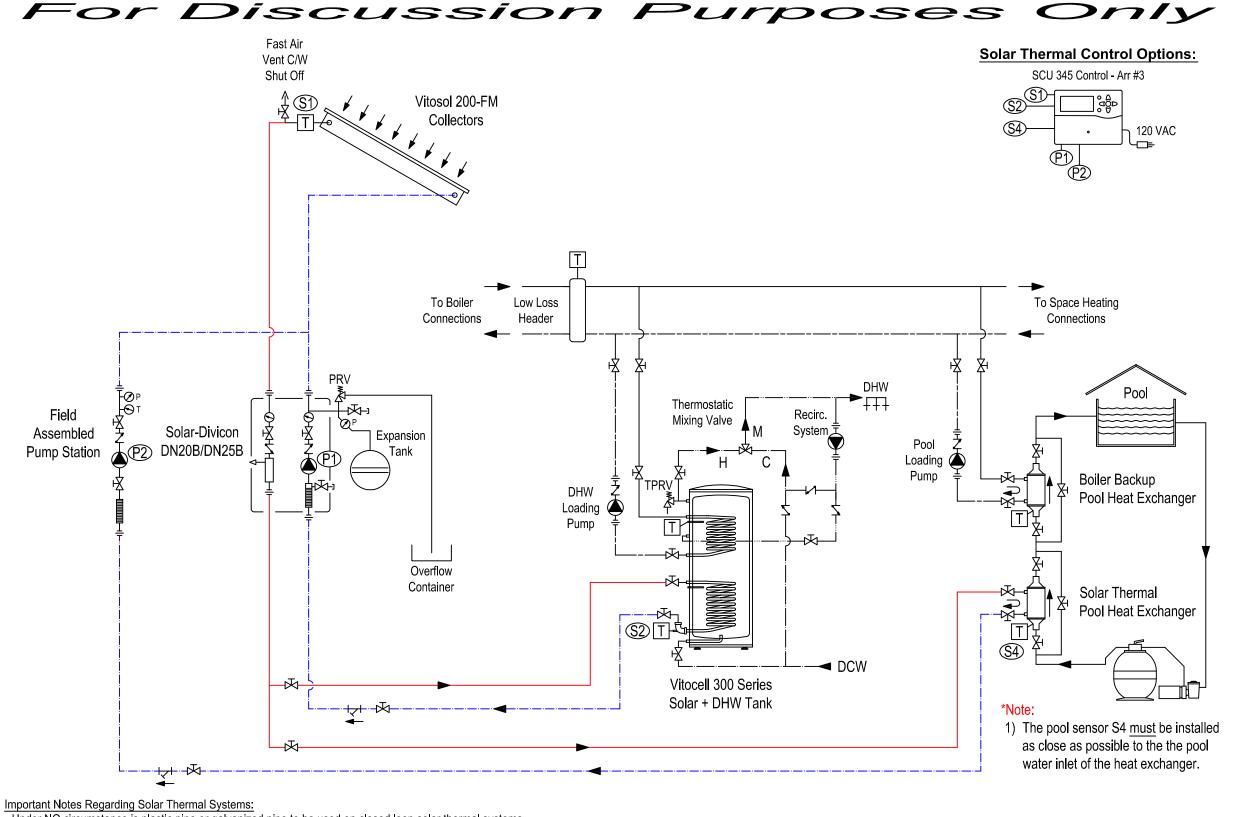
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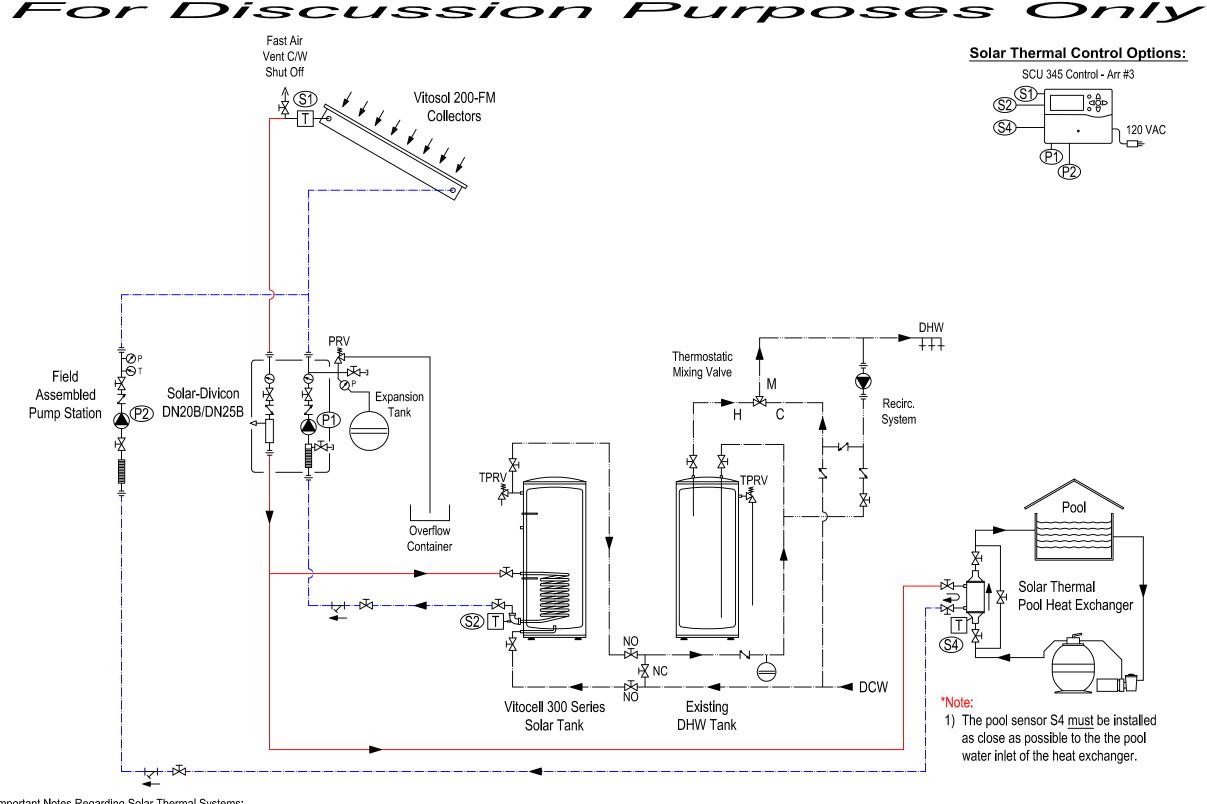
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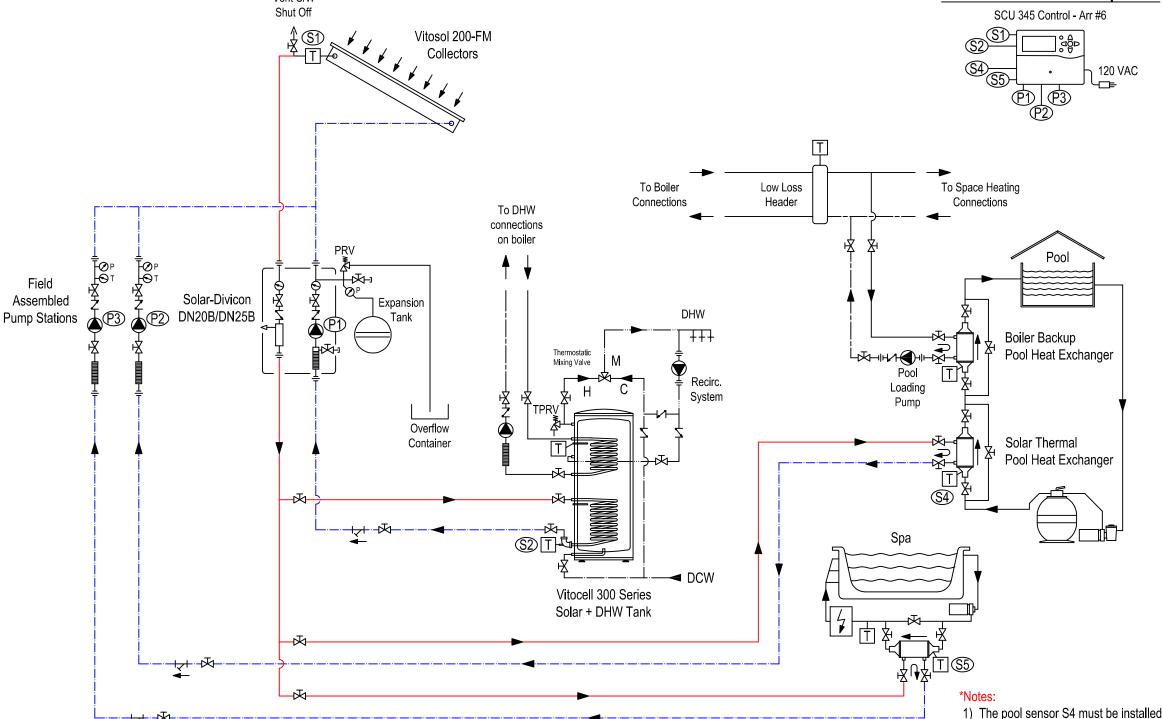
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Important Notes Regarding Solar Thermal Systems:

Field

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岗	CIRCUIT SETTER					
\forall	WYE STRAINER					
И	CHECK VALVE					
w.Z	PRESSURE RELIEF VALVE					
图	ANTISCALD / TEMPERING VALVE					

TEMPERATURE SENSOR

PRESSURE GUAGE

TEMPERING GAUGE

NOTES

as close as possible to the the pool

water inlet of the heat exchanger.

2) The spa sensor S5 must be installed

as close as possible to the the spa

water inlet of the heat exchanger.

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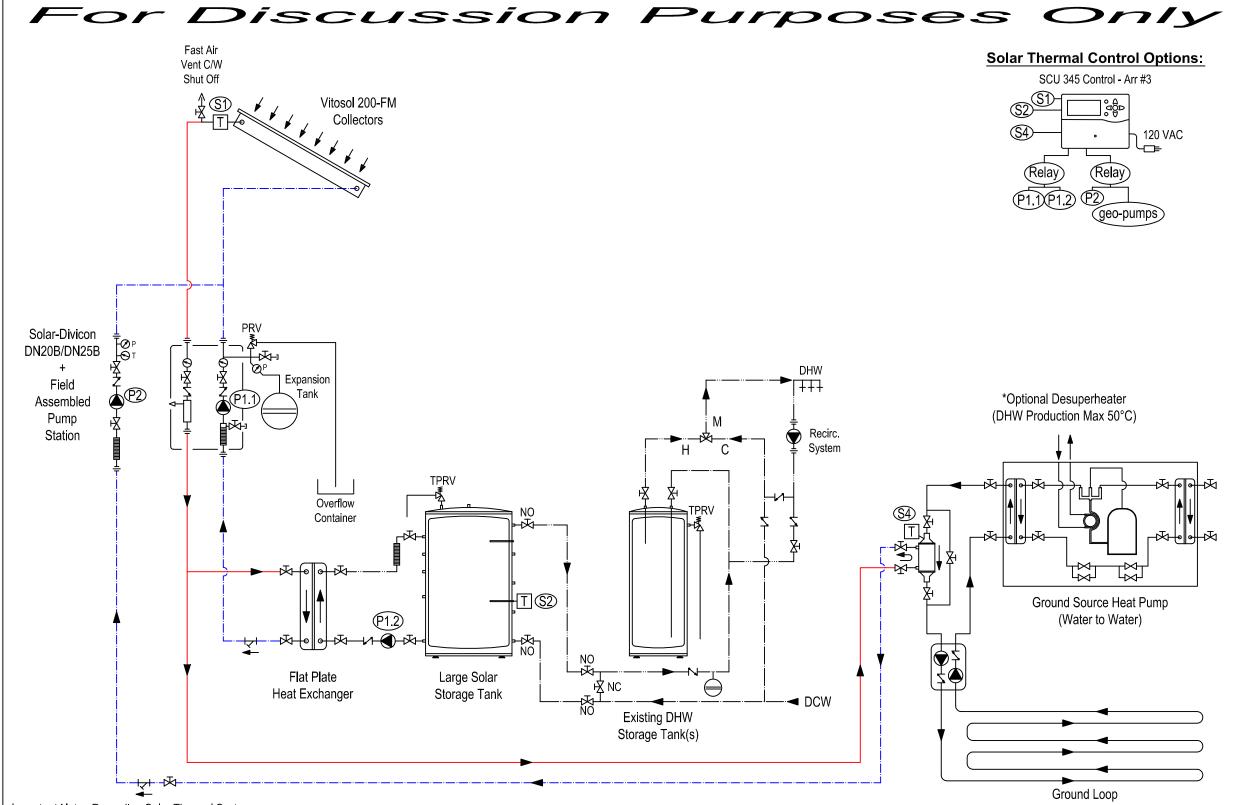
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Important Notes Regarding Solar Thermal Systems:

- Under NO circumstance is plastic pipe or galvanized pipe to be used on closed loop solar thermal systems.
- Only metal pipe such as Type-L Copper, ACR-Copper, Sch-40 Steel, Corrugated Stainless Steel Pipe is allowed.
- When joining Type-L Copper tubing, only 95/5 Tin/Antimony (soft solder) or brazing should be used to join tubing.
- When using press fittings, use high temperature O-rings suitable for use with propylene glycol mixtures up to 50%.
- If a flat plate heat exchanger is to be used for potable water applications, the installation of a water softener is highly recommended to help protect the heat exchanger against fouling.
- If the solar system is used to supplement the space heating system, low temperature zones must be thermally protected using a mixing valve to protect against excessively high fluid temperatures.
- The information and designs in this drawing are confidential and proprietary. Reproducing, modifying or forwarding this drawing or any information or design contained therein requires the prior written consent of Viessmann Manufacturing Company Inc.

CONFIDENTIAL CONCEPTUAL Drawing Only Conceptual Drawing CONTRUCTION DO NOT USE FOR CONTRUCTION

LEGEND					
SYMBOLS	DESCRIPTION				
	SOLAR WATER SUPPLY PIPE				
	SOLAR WATER RETURN PIPE				
	DOMESTIC COLD WATER PIPE				
	DOMESTIC HOT WATER PIPE				
	DOMESTIC COLD WATER PIPE				
	DOMESTIC HOT WATER RECIRC. PIPE				
⋈	ISOLATION VALVE				
岗	CIRCUIT SETTER				
Ŋ	WYE STRAINER				
И	CHECK VALVE				
WAZ	PRESSURE RELIEF VALVE				
图	ANTISCALD / TEMPERING VALVE				
Ţ	TEMPERATURE SENSOR				
-⊘ P	PRESSURE GUAGE				
<u>-</u> ⊕⊤	TEMPERING GAUGE				

- THIS IS A CONCEPTUAL DRAWING ONLY AND DOES NOT REPRESENT ALL SAFETY CONTROLS WHICH MAY BE REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFE INSTALLATION OF FUEL BURNING EQUIPMENT. THE DESIGNER MUST DETERMINE IF A SUGGESTED SYSTEM WILL WORK IN HIS/HER APPLICATION AND ADD THE NECESSARY ISOLATION VALVES, SAFETY DEVICES AND MODIFICATIONS WHICH MAY BE REQUIRED BY LOCAL AUTHORITIES.

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50 McMURRAY ROAD, WATERLOO, ONTARIO N2V 2G5

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For Discussion Purposes Only T *Notes: 1) Viessmann 200-FM (ThermProtect) flat plate collectors have a special absorber coating that helps prevent glycol degradation caused by excess generated heat. In some cases using a heat rejection unit is recommended to prevent the collectors from reaching the system high limit safety temperature. 2) The heat rejection circuit MUST be sized to remove a minimum of 225 Btuh/ft² of collector aperture area. 3) The available options for heat rejection will depend on the solar control that is being used. If you are unsure which heat rejection option(s) are applicable for Heat Rejection Option #1 your solar control, please contact the Viessmann solar department. Hydronic Fan Coil w Pump Logic Recirc Thermostatic Mixing Valve Heat Rejection Option #2 Hydronic Fan Coil w Motorized Valve Logic

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<u>Heat Rejection Option #3</u>
Radiant Fin Tubes w 3-Way Diverting Valve

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Motorized

Manually Operated

3-Way Diverting

☐ Mixing / Diverting

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