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		Rev: 01
		April 2012
KLM Technology Group #03-12 Block Aronia, Jalan Sri Perkasa 2 Taman Tampoi Utama 81200 Johor Bahru Malaysia	SPECIFICATION FOR PLATE HEAT EXCHANGER (PROJECT STANDARDS AND SPECIFICATIONS)	

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1. GENERAL

1.1 Scope

1.1.1 This specification covers the basic requirements for the design, materials, fabrication, inspection and testing of plate and frame heat exchangers.

1.2 References

1.2.1 The following standards and publications are referred to herein:

- 1) As covered in this Specification for painting and welding for heat exchangers.
- 2) ASME (American Society of Mechanical Engineers) publications:
 - a. Section II, Material Specifications
 - b. Section VIII, Division 1, Pressure Vessels
 - c. Section IX, Welding and Brazing Qualifications
- 3) ANSI Standards
 - a. ASCE 7-93 Building Code Requirements for Minimum Design Loads in Buildings and Others Structures.
 - b. B16.5, Steel Pipe Flanges, Flanged Valves and Fittings.

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1.3 Definitions

- 1.3.1 Exchanger Unit: One or more plate and frame heat exchanger for a specified service.
- 1.3.2 Item Number: OWNER identification number for and exchanger unit.
- 1.3.3 Effective heat Transfer Area: The area of the plate which is in contact with both fluids.
- 1.3.4 Plate and Frame Heat Exchanger (PFHE): The assembly of gasketed plates supported in one frame.
- 1.3.5 Frame: The assembly that provides the structural support and the pressure containment for the plate pack
- 1.3.6 Connector Plate: Plate used to separate 2 or more services in on FHE.

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1.4 Nomenclature

1.4.1 Refer to Figure 1 for typical components of a plate and frame heat exchanger.

- | | |
|------------------|---------------------|
| 1) plate | 6) Compressor bolt |
| 2) Plate pack | 7) Bottom bar |
| 3) Fixed cover | 8) Port |
| 4) End support | 9) Top Carrying bar |
| 5) Movable Cover | |

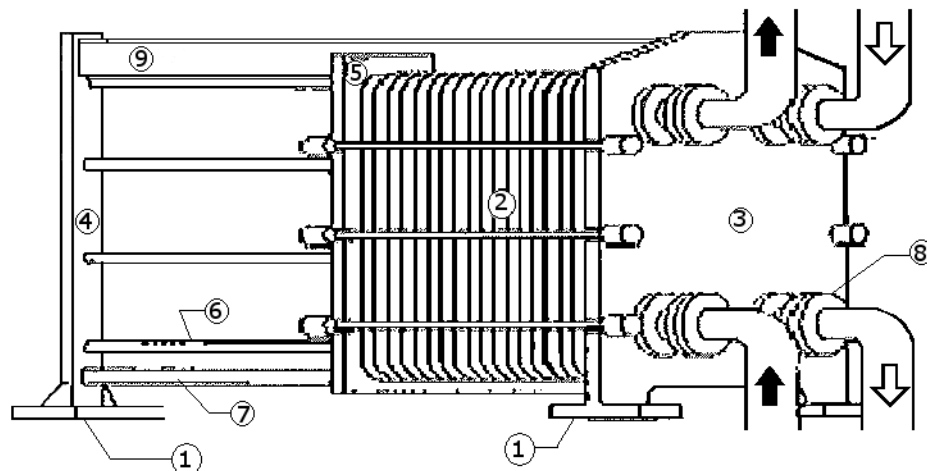


FIGURE 1: TYPICAL COMPONENTS OF A PLATE HEAT EXCHANGER