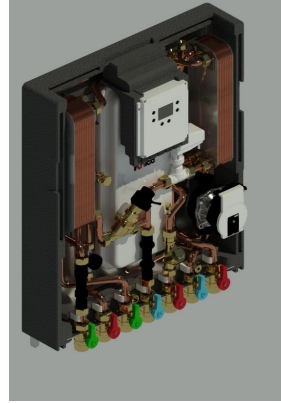
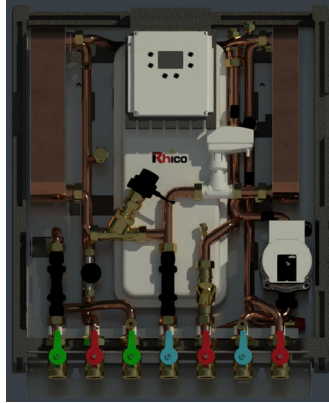


TI45UL - BIM Properties



Parameter	Value	Formula	Lock
Constraints			
Default Elevation	1200		
Insulation Jacket Visibility	Off/On		
Screen Cover Visibility	Off/On		
Internal Components Visibility	Off/On		
Flow Meter Visibility	Off/On		
Pump Visibility	Off/On		
First Fix Bracket Visibility	Off/On		
Materials and Finishes			
Main Component Material	UNI EN 12165 CW617N		
Insulation Cover Material	EPP 0.037 W/m*K		
Plate Heat Exchanger Material	Brazed Stainless Steel		
Mechanical			
Loss Method			
K Coefficient Table			
K Coefficient			
IFC Parameters			
IfcExportAs	N/A		
IfcExportType	N/A		
NominalDepth	160		
NominalHeight	800		
NominalLength	570		
NominalWidth	570		
Model Properties			
_Author	CH		
_AuthorizedBy	Rhico District Heating Systems		
_BSBibleVersion	16		
_BimSpecGuid	0		
_CreatedBy	Rhico District Heating Systems		
_CurrentRevision	1		
_DistributedBy	Rhico		
General			
BIMObjectName	Rhico_MechanicalEquipment_TI45UL		
NBSDescription	Heat Interface Unit		
NBSNote			
NBSObjectName	Rhico Products - Heat Interface Unit		
NBSOfficeMasterTag	N/A		
NBSReference	N/A		
Data			
Application	Heat Interface Unit		
Approval			
EANCode			
GPIDCode			
SpareParts			
General Description	The TI45 Ultra Lean is an electronic Heat Interface Unit for heating and hot water applications. Two plate heat exchangers within the module allow for complete separation from the primary circuit or central plant system making the TI45 Ultra Lean ideally suited to apartments, terraced houses, semi detached houses etc. where centralised plant or district heating systems are employed.		
Weight (Including Interception Jig)	25kg		
Hydraulic Connections (With Interception Jig)	M-F 1" - 3/4"		
Mounting	Wall Hung or Built In		
Compliance	EMC 2004/1108/CE LVD 2006/95/CE		

Domestic Hot Water	The production of instantaneous DHW is via a stainless steel plate heat exchanger. The regulation of DHW temperature is electronic via a pressure independent control valve that also allows balancing of the HIUs within the system.		
Heating	The heating is supplied via stainless steel plate heat exchanger. The regulation is made by a two-way valve (primary circuit) and the modulation of the secondary pump. The operation of the two-way valve maintains the secondary flow temperature at the set value. The speed of the secondary heating pump controls the desired thermal operation (between inlet and outlet of the space heating circuit).		
Equipped	The module is equipped with all the necessary safety components to ensure a correct functionality: 7 litre expansion tank for the secondary circuit, Secondary circuit safety valve, Primary / secondary air-vent valves, Check valves, Input for safety thermostat (low temperature systems), Filling system from DCW, Strainer (primary side). The module can be equipped with anti-water hammer kit if required.		
Sensors	The variables monitored are as follows: Primary circuit flow temperature (°C), DHW production temperature (°C), SPACE HEATING flow temperature, SPACE HEATING return temperature, Portata RISC, Domestic water flow switch, Heating circuit pressure transducer, Primary circuit flow rate (energy meter), PWM modulating status feedback (heating circuit pump), Stepper motor position feedback		
Primary Circuit Maximum Pressure	16Bar		
Domestic Water Circuit Maximum Pressure	10Bar		
Heating Circuit Maximum Pressure	3Bar		
Primary Circuit Maximum Flow Rate	1500 l/h		
Necessary Primary Circuit Head	12m H2O / Max 16m		
Max Working Temperature	85oC		
Module Supply	230V		
Power Consumption	70W		
Stepper Motor Power Supply	12V		
Stepper Motor Running Time	5 Seconds		
Rotary Electric Actuator Power Supply	230V		
Rotary Electric Actuator Running Time	24 Seconds		
Rotary Electric Actuator Force	120 Newtons		
Other			
AccessibilityPerformance	N/A		
AssetIdentifier (default)	Please record on commissioning		
AssetType	Fixed		
BarCode (default)	Please record on commissioning		
ClassificationName	Uniclass2015		
ClassificationValue	Pr_75_51_17_78		
CodePerformance	N/A		
Color	Red, White & Black		
Constituents	N/A		
CreatedBy	CH		
CreatedOn	08/02/2021 T10:00:00		
DocumentationCertificates			
DocumentationInstallationGuide	https://rhico.co.uk/rhico-brochures/TI45UL-Example-of-use.pdf		
DocumentationLiterature			
DocumentationMaintenance			
DocumentationTechnical	https://rhico.co.uk/rhico-brochures/Rhico-TI45-UL-Brochure.pdf		
DurationUnit			
ExpectedLife			
Features			
Finish	EPP Foam		
Grade			
InstallationDate (default)			
ManufacturerName	Rhico District Heating Systems		
Material	EPP Foam		
ModelNumber			
ModelReference			
ProductionYear	As per serial information		
ReferencedStandard			
SerialNumber (default)	Please record on commissioning		
Shape	Cylindrical		
Size	N/A		
TypeName			
WarrantyDescription			
WarrantyDurationLabor			
WarrantyDurationParts			
WarrantyDurationUnit			
WarrantyGuarantorParts			
WarrantyStartDate (default)	Please record on commissioning		
Identity Data			
Assembly Code	D20		
Cost			
Description	Rhico Products - TI45UL		
Keynote	S		
Manufacturer	Rhico District Heating Systems		
Model	Rhico Products - TI45UL		
Type Comments	Rhico Products - TI45UL		
Type Image			
URL	https://www.rhico.co.uk/		