Split System Cooling
Product Data

XR15  4TTR5

1 1/2 - 5 Tons (018E - 061E)
Features and Benefits

- **CLIMATUFF®** compressor
- Efficiency up to **17.0 SEER**
- All aluminum **SPINE FIN™** coil
- **WEATHERGUARD™** fasteners
- **QUICK-SESS™** cabinet, service access and refrigerant connections with full coil protection
- **DURATUFF™** base, fast complete drain, weatherproof
- **COMFORT-R™** mode approved
- Glossy corrosion resistant finish
- Internal compressor high/low pressure & temperature protection
- 018, 024 & 030 ship with start kit
- Liquid line filter/drier
- Tarpaulin gray cabinet with anthracite gray badge and cap
- High pressure switch
- Service valve cover
- R-410A refrigerant
- S.E.E.T. design testing
- 100% line run test
- Low ambient cooling to 30°F with AY28X079
- Low ambient cooling to 55°F as shipped
- Extended warranties available
Contents

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## General Data

### Product Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>4TTR5018E1</th>
<th>4TTR5024E1</th>
<th>4TTR5030E1</th>
<th>4TTR5036E1</th>
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<tbody>
<tr>
<td><strong>Electrical Data V/Ph/Hz</strong></td>
<td>208/230/1/60</td>
<td>208/230/1/60</td>
<td>208/230/1/60</td>
<td>208/230/1/60</td>
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<td><strong>Min Cir Ampacity</strong></td>
<td>9</td>
<td>9</td>
<td>12</td>
<td>19</td>
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<td><strong>Max Fuse Size (Amps)</strong></td>
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<td>15</td>
<td>20</td>
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<tr>
<td><strong>Compressors</strong></td>
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<td>CLIMA TUFF®</td>
<td>CLIMA TUFF®</td>
<td>CLIMA TUFF® • SCROLL</td>
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<tr>
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<td>0.74</td>
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<td>1/8</td>
<td>1/5</td>
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<tr>
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<td>23</td>
<td>23</td>
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<tr>
<td><strong>Coil</strong></td>
<td>Spine Fin™</td>
<td>Spine Fin™</td>
<td>Spine Fin™</td>
<td>Spine Fin™</td>
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<tr>
<td><strong>Refrigerant R-410A</strong></td>
<td>5/2-LB/OZ</td>
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<td>7/0-LB/OZ</td>
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<td>34 x 30.1 x 33</td>
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<td><strong>Weight - Net</strong></td>
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<td><strong>Start Components</strong></td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
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<td><strong>Sound Enclosure</strong></td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<td><strong>Compressor Sump Heat</strong></td>
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<td><strong>Optional Accessories:</strong></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Anti-short Cycle Timer</strong></td>
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<td>TAYASCT501A</td>
<td>TAYASCT501A</td>
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<td><strong>Evaporator Defrost Control A/C</strong></td>
<td>AY28X079</td>
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<td><strong>Rubber Isolator Kit</strong></td>
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<td><strong>Crank Case Heater Kit</strong></td>
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<td><strong>Extreme Condition Mounting Kit</strong></td>
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<td><strong>Snow Leg - Base &amp; Cap 4&quot; High</strong></td>
<td>BAYLEGSO02</td>
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<tr>
<td><strong>Snow Leg - 4&quot; Extension</strong></td>
<td>BAYLEGSO003</td>
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<td><strong>Seacoast Kit</strong></td>
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<td><strong>Refrigerant Linesset</strong></td>
<td>TAYREFLN950</td>
<td>TAYREFLN950</td>
<td>TAYREFLN7*</td>
<td>TAYREFLN7*</td>
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### A-weighted Sound Power Level [dB(A)]

<table>
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<tr>
<th>MODEL</th>
<th>SOUND POWER LEVEL [dB(A)]</th>
<th>A-WEIGHTED FULL OCTAVE SOUND POWER LEVEL [dB(A)] High Stage</th>
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<td>75</td>
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<td>4TTR5036E</td>
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<td>4TTR5048E</td>
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Note: Rated in accordance with AHRI Standard 270-2008.
### Product Specifications

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<tr>
<th>Model No.</th>
<th>4TTR5042E1</th>
<th>4TTR5048E1</th>
<th>4TTR5049E1</th>
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<td>208/230/1/60</td>
<td>208/230/1/60</td>
<td>208/230/1/60</td>
<td>230/1/60</td>
</tr>
<tr>
<td>Min Cir Ampacity</td>
<td>23</td>
<td>26</td>
<td>26</td>
<td>34</td>
<td>45</td>
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<tr>
<td>Max Fuse Size (Amps)</td>
<td>40</td>
<td>45</td>
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### Compressors

<table>
<thead>
<tr>
<th>No. Used - No. Stages</th>
<th>CLIMATUFF® - SCROLL</th>
<th>CLIMATUFF® - SCROLL</th>
<th>CLIMATUFF® - SCROLL</th>
<th>CLIMATUFF® - SCROLL</th>
<th>CLIMATUFF® - SCROLL</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL AMPS - LR AMPS</td>
<td>1.9 - 112</td>
<td>19.9 - 109</td>
<td>19.9 - 109</td>
<td>26.4 - 134</td>
<td>32.1 - 152.9</td>
</tr>
<tr>
<td>Outdoor Fan FL Amps</td>
<td>0.93</td>
<td>0.93</td>
<td>1.00</td>
<td>0.93</td>
<td>2.80</td>
</tr>
<tr>
<td>Fan HP</td>
<td>1/5</td>
<td>1/5</td>
<td>1/5</td>
<td>1/5</td>
<td>1/3</td>
</tr>
<tr>
<td>Fan Dia (inches)</td>
<td>27.6</td>
<td>27.6</td>
<td>27.6</td>
<td>27.6</td>
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</table>

### Coil

<table>
<thead>
<tr>
<th>Spine Fin™</th>
<th>Spine Fin™</th>
<th>Spine Fin™</th>
<th>Spine Fin™</th>
<th>Spine Fin™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line Size - (in.) O.D. Gas</td>
<td>7/8</td>
<td>7/8</td>
<td>7/8</td>
<td>7/8</td>
</tr>
</tbody>
</table>

### Dimensions H x W x D (Crated)

| 46.4 x 35.1 x 38.7 | 51 x 35.1 x 38.7 | 51 x 35.1 x 38.7 | 51 x 35.1 x 38.7 | 51 x 35.1 x 38.7 |

### Weight - Shipping

| 272 | 282 | 304 | 285 |

### Weight - Net

| 235 | 245 | 267 | 248 | 275 |

### Optional Accessories:

- **Anti-short Cycle Timer**: TAYASCT501A
- **Evaporator Defrost Control A/C**: AY28X079
- **Rubber Isolator Kit**: BAYISLT101
- **Crank Case Heater Kit**: BAYCCHT301
- **Hard Start Kit Scroll**: BAYKSKT260
- **Extreme Condition Mounting Kit**: BAYECMT004
- **Snow Leg - Base & Cap 4" High**: BAYLEGS002
- **Snow Leg - 4" Extension**: BAYLEGS003
- **Seacoast Kit**: BAYSEAC001
- **Refrigerant Lineset**: TAYREFLN*<sup>5</sup>

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1. Certified in accordance with the Air-Source Unitary Heat Pump Equipment certification program which is based on AHRI Standard 210/240.
2. Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
3. Standard line lengths - 60'. Standard lift - 60' Suction and Liquid line. For 061 units, Max. linear length 60 ft.; Max. lift - Suction 25 ft.; Max lift - Liquid 25 ft.
4. For Greater lengths and lifts refer to refrigerant piping software Pub® 32-3312-0.<sup>†</sup> (†denotes latest revision)
5. * = 15, 20, 25, 30, 40 and 50 foot lineset available.
General Data

Accessory Description and Usage

**Anti-Short Cycle Timer** — Solid state timing device that prevents compressor recycling until 5 minutes have elapsed after satisfying call or power interruptions. Use in area with questionable power delivery, commercial applications, long lineset, etc.

**Evaporator Defrost Control** — SPST Temperature actuated switch that cycles the condenser off as indoor coil reaches freeze-up conditions. Used for low ambient cooling to 30°F with TXV.

**Rubber Isolators** — 5 large rubber donuts to isolate condensing unit from transmitting energy into mounting frame or pad. Use on any application where sound transmission needs to be minimized.

**Hard Start kit** — Start capacitor and relay to assist compressor motor startup. Use in areas with marginal power supply, on long linesets, low ambient conditions, etc.

**Extreme Condition Mount Kit** — Bracket kits to securely mount condensing unit to a frame or pad without removing any panels. Use in areas with high winds, or on commercial roof tops, etc.

AHRI Standard Capacity Rating Conditions

**AHRI STANDARD 210/240 RATING CONDITIONS** —
(A) Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.

**AHRI STANDARD 270 RATING CONDITIONS** — (Noise rating numbers are determined with the unit in cooling operation.) Standard Noise Rating number is at 95°F outdoor air.
Electrical Data

Schematic Diagrams

4TTR5048E, 4TTR5049E

CA COOLING ANTICIPATOR
CBP COIL BOTTOM SENSOR
CC FAN CAPACITOR
CN WIRE CONNECTOR
CP COMPRESSOR
CR RON CAPACITOR
CS STANDING CAPACITOR
CSR CAPACITOR SWITCHING RELAY
SFC DIOXIDE CONTROLS
F INDOOR FAN RELAY
HA HEATING ANTICIPATOR
HP CO HIGH PRESSURE CUTOUT SW
IOL INTERNAL OVERLOAD PROTECTOR
LPCD LOW PRESSURE CUTOUT SW
MS COMPRESSOR MOTOR CONTACTOR
ODA OUTDOORANTICIPATOR
DTG OUTDOOR FAN THERMOSTAT
DTT OUTDOOR THERMOSTAT
DT OUTDOOR THERMOSTAT
HA RESISTANCE HEAT SWITCH
SC SWITCH OVER VALVE SO N/D
SW SYSTEM "ON-OFF" SWITCH
TDS DISCHARGE LINE THERMOSTAT
TNS TRANSFORMER
TSH HEATING THERMOSTAT

WARNING
HAZARDOUS VOLTAGE:
DISCONNECT ALL ELECTRIC POWER
INCLUDING REMOTE DISCONNECTS
BEFORE SERVICING
FAILURE TO DISCONNECT POWER
BEFORE SERVICING CAN CAUSE
SEVERE PERSONAL INJURY OR DEATH.

CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED
TO ACCEPT OTHER TYPES OF
CONDUCTORS.
FAILURE TO DO SO MAY CAUSE
DAMAGE TO THE EQUIPMENT!

COLOR OF WIRE
BK/BL BLACK WIRE WITH BLUE MARKER
YW/YL ORANGE T/L ORANGE/T
BL/GR BLUE/B GREEN
DR BROWN PH/WHITE

COLOR OF MARKER
YW/YL WHITE
BL/GR WHITE
DR BROWN WHITE

NOTES:
1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3
2. IF USED, ODT-B MUST BE WIRETED REMOTE CONTROL
   BOX IN AN APPROVED WEATHERPROOF ENCLOSURE
3. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2
   AT AIR HANDLER
4. LOW VOLTAGE (24 V) FIELD WIRING MUST BE 18 AWG MIN.

FOR CANADIAN INSTALLATIONS
POUR INSTALLATIONS CANADIENNES

CAUTION: NOT SUITABLE FOR USE ON
SYSTEMS EXCEEDING 150V-TO-GROUND.
ATTENTION: NE CONVIENT PAS AUX
INSTALLATIONS DE PLUS DE 150 V A
LA TERRE.
Electrical Data

Schematic Diagrams

4TTR5060E

CA COOLING ANTICIPATOR
CB COOL BOTTLE SENSOR
CF FAN CAPACITOR
CH WIRE CONNECTOR
CO BASE UNIT
CR SUN CAPACITOR
CS STARTING CAPACITOR
CSR CAPACITOR SWITCHING RELAY
CT LOC. CONTROL
CTU MOTOR FAN RELAY
HA HEATING ANTICIPATOR
HCPC HIGH PRESSURE CUTOFF DP
HOL INTERNAL OVERLOAD PROTECTOR
K4C ACC RECTIFIER
LPCO LOW PRESSURE CUTOFF DP
LS COMPRESSOR MOTOR CONTACTOR
LTA OUTDOOR ANTICIPATOR
LTT OUTDOOR THERMOSTAT
LTTT OUTDOOR THERMOSTAT
LTS RESISTANCE HEAT WIRE
LTV SYSTEM ON-OFF RELAY
LUG DISCHARGE LINE THERMOSTAT
LUGT TRANSFORMER
MG TRANSFORMER
MGU HEATING COOLING THERMOSTAT
MGUH HEATING THERMOSTAT
MGUI HEATING THERMOSTAT
R GL SHORT RESISTOR

△ WARNING
HAZARDOUS VOLTAGE
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!

△ CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!

COLOR OF WIRE
BL BLACK OR ORANGE
YL YELLOW
BLU BLUE
RD RED
GR GREEN
BR BROWN
WH WHITE
PR PURPLE

NOTES:
1. IF DOT-B IS NOT USED, ADD JUMPER BETWEEN N2 & N3 AT AIR HANDLER.
2. OR BR WIRE MUST BE MOUNTED REMOTELY OF CONTROL.
3. LOW VOLTAGE 120 V. I FIELD WIRING MUST BE 18 AWG MIN.

FOR CANADIAN INSTALLATIONS
POUR INSTALLATIONS CANADIENNES
CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V TO GROUND. ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V À LA TERRE.

Printed from D157177P01 Rev 00
Electrical Data

Schematic Diagrams

4TTR5061E (continued)

CA COOLING ANTICIPATOR
CBS COIL BOTTOM SENSOR
CF FAN CAPACITOR
CN WIRE CONNECTOR
CPR COMPRESSOR
CR RUN CAPACITOR
CS STARTING CAPACITOR
CSR CAPACITOR SWITCHING RELAY
DTC DEFROST CONTROL
F INDOOR FAN RELAY
HA HEATING ANTICIPATOR
HPCO HIGH PRESSURE CUTOUT SW
IOL INTERNAL OVERLOAD PROTECTOR
ACR A/C RECTIFIER
LPCO LOW PRESSURE CUTOUT SW.
MS COMPRESSOR MOTOR CONTACTOR
ODA OUTDOOR ANTICIPATOR
OFT OUTDOOR FAN THERMOSTAT
OSS OUTDOOR TEMPERATURE SENSOR
ODT OUTDOOR THERMOSTAT
RHS RESISTANCE HEAT SWITCH
SC SWITCHOVER VALVE SOLENOID
SW SYSTEM "ON-OFF" SWITCH
TDL DISCHARGE LINE THERMOSTAT
TDR TIME DELAY RELAY (5 SEC DELAY ON)
TNS TRANSFORMER
TS HEATING-COOLING THERMOSTAT
THM HEATING THERMOSTAT

⚠️ WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER
INCLUDING REMOTE DISCONNECTS
BEFORE SERVICING.
FAILURE TO DISCONNECT POWER
BEFORE SERVICING CAN CAUSE
SEVERE PERSONAL INJURY OR DEATH!

⚠️ CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED
TO ACCEPT OTHER TYPES OF
CONDUCTORS.
FAILURE TO DO SO MAY CAUSE
DAMAGE TO THE EQUIPMENT!

COLOR OF WIRE
BR/BK BLACK WIRE WITH BLUE MARKER
BK BLACK OR ORANGE
YL YELLOW
BL BLUE RD RED
GR GREEN
BR BROWN WH WHITE
PR PURPLE

NOTES:
1. BE SURE POWER SUPPLY AGREES
   WITH EQUIPMENT NAMEPLATE.
2. POWER WIRING AND GROUNDING OF
   EQUIPMENT MUST COMPLY WITH
   LOCAL CODES.
3. LOW VOLTAGE WIRING TO BE NO. 18
   AWG MINIMUM CONDUCTOR.
4. IF OUTDOOR THERMOSTAT (ODT) IS
   NOT USED, CONNECT W2 TO W3.
5. BE SURE THE JUMPER BETWEEN R AND BK
   IS CUT OR REMOVED.
6. WITH Q AND Y/Y2 ENERGIZED, INDOOR
   FAN IS AT 80% AIRFLOW.
7. WITH Q, Y/Y2 AND BK ENERGIZED, INDOOR
   FAN IS AT 100% AIRFLOW.

FOR CANADIAN INSTALLATIONS
POUR INSTALLATIONS CANADIENNES
CAUTION: NOT SUITABLE FOR USE ON
SYSTEMS EXCEEDING 150V-TO-GROUND.
ATTENTION: NE CONVIENT PAS AUX
INSTALLATIONS DE PLUS DE 150 V A
LA TERRE.
# Dimensions

**4TTR5 Outline Drawing**

*Note: All dimensions are in MM (Inches).*

![Diagram of 4TTR5 Outline Drawing](image)

<table>
<thead>
<tr>
<th>MODELS</th>
<th>BASE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
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<td>730</td>
<td>829</td>
<td>28-3/4</td>
<td>756</td>
<td>29-3/4</td>
<td>5/8</td>
<td>3/8</td>
<td>127 (5)</td>
<td>76 (3)</td>
<td>17 (2-1/4)</td>
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<td>3/8</td>
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From Dwg. D156010
Mechanical Specification Options

General
The 4TTR5 is fully charged from the factory for up to 15 feet of piping. This unit is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities are matched with a wide selection of air handlers and furnace coils that are AHRI certified. The unit is certified to UL 1995. Exterior is designed for outdoor application.

Casing
Unit casing is constructed of heavy gauge, G90 galvanized steel and painted with a weather-resistant powder paint on all louvers, panels, prepaint on all other panels. Corrosion and weather-proof CMBP-G30 DuraTuff™ base.

Refrigerant Controls
Refrigeration system controls include condenser fan and compressor contactor. High and low pressure controls are inherent to the compressor. A factory installed liquid line drier is standard.

Compressor
The Climatuff® compressor features internal over temperature and pressure protection and total dipped hermetic motor. Other features include: centrifugal oil pump and low vibration and noise.

Condenser Coil
The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Low Ambient Cooling
As manufactured, this unit has a cooling capability to 55°F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 30°F.

Accessories
Thermostats — Cooling only and heat/cooling (manual and automatic change-over). Sub-base to match thermostat and locking thermostat cover.
Trane has a policy of continuous product and product data improvement and it reserves the right to change design and specifications without notice.