



**REFRIGERANT LINE SETS      LS SERIES**

The LS Series Refrigerant Line Sets are utilized in split ( sometimes called remote ) direct expansion systems to connect the evaporator/fan coil with the condensing unit. Each line set is comprised of an insulated suction and liquid line with either flare or quick connect ends along with an electrical wire ( if required ).

LS Series line sets are supplied in a minimum length of 10' with longer line sets being available in additional 5' increments.

Example: A line set is required for a 10,000 BTUH condensing unit and evaporator system. The evaporator is located 35' from the condensing unit. The control that will be used is the TW2-01B display head along with the KHT-10 condensing unit. The correct line set configuration is as follows:

|   |                   |            |
|---|-------------------|------------|
| 1 | LS12-3C-10'       | 10'        |
| 5 | LS12-3C-5'        | <u>25'</u> |
|   | Total line length | 35'        |

The above line set will include a 3/8" insulated suction line ( w/ flare nuts on each end ), a 1/4" insulated liquid line ( w/ flare nuts on each end ) and a 14/3 wire for connecting the evaporator fan motor to the TW2 board in the condensing unit electrical box.

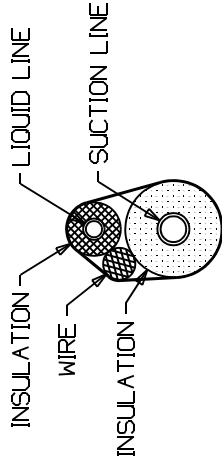
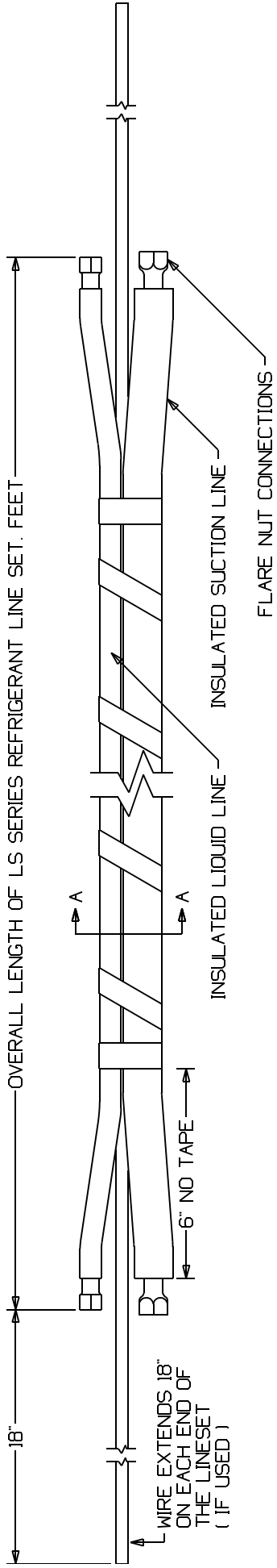
LS Series line sets are shipped in a 3' diameter coil.

|           |           |             |              |  |                                  |
|-----------|-----------|-------------|--------------|--|----------------------------------|
| <b>LS</b> | <b>12</b> | <b>- 3C</b> | <b>- 10'</b> | <b>Model Number Nomenclature</b>                 |                                  |
|           |           |             |              | <b>Length of Line Set in Feet</b>                |                                  |
|           |           |             |              | 10'  | 10' Base line set                |
|           |           |             |              | 5'   | 5' Additional length to line set |
|           |           |             |              | <b>Wire Type</b>                                 |                                  |
|           |           |             | Blank        | No wire supplied                                 |                                  |
|           |           |             | 3C           | with 14/3 wire (extends 18" on both ends)        |                                  |
|           |           |             | 6C           | with 6 conductor wire (extends 18" on both ends) |                                  |
|           |           |             |              | <b>Line Sizes</b>                                |                                  |
|           |           |             | 12           | 1/4" liquid, 3/8" suction                        |                                  |
|           |           |             | 16           | 1/4" liquid, 1/2" suction                        |                                  |
|           |           |             | 24           | 3/8" liquid, 1/2" suction                        |                                  |
|           |           |             | 36           | 3/8" liquid, 3/4" suction                        |                                  |
|           |           |             |              | <b>Line Set Series</b>                           |                                  |

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# LS12-xC-xx' EXAMPLE



SECTION A-A  
(2x's ACTUAL)

|  |                 |
|--|-----------------|
| <b>AQUAAIR</b> MARINE AIR CONDITIONING SYSTEMS |                 |
| LS SERIES LINE SETS                            |                 |
| DRAWING NUMBER<br>LS-4                         | DATE<br>3-21-98 |
| SCALE<br>N/A                                   | REV<br>A        |
| DRAWN BY<br>DN                                 | APPROVED BY     |
| REVISION DATE                                  |                 |