



Liquid Injection Guidelines for C-SCN Refrigeration Compressor

1、Compressor Model List

Output	Model
6HP	C-SCN453L8H
7HP	C-SCN523L8H
8HP	C-SCN603L8H
10HP	C-SCN753L8H

2、TEV Specification

Comp. Model	Cap. of TEV	TEV Model	S.S.H (K)
C-SCN453L8H	1.05KW	INX-2203DUL-Q61	44.5±3
C-SCN523L8H	2.53KW	INX-2208DUL-Q63	
C-SCN603L8H			
C-SCN753L8H			

3、Capillary Tubes in parallel with TEV

Comp. Model	OD (mm)	ID (mm)	L (mm)
C-SCN453L8H	φ 3	φ 1	1000
C-SCN523L8H			
C-SCN603L8H		φ 1.2	
C-SCN753L8H			

NOTE: when apply the TEV and Capillary tube combination, please confirm below items within the full envelope of the system:

- Is the Discharge temperature below the specification value? (High load conditions)
- Is there any irregularity vibration with the TEV ? (Low load conditions)

4、Capillary Tubes for Liquid Injection without TEV

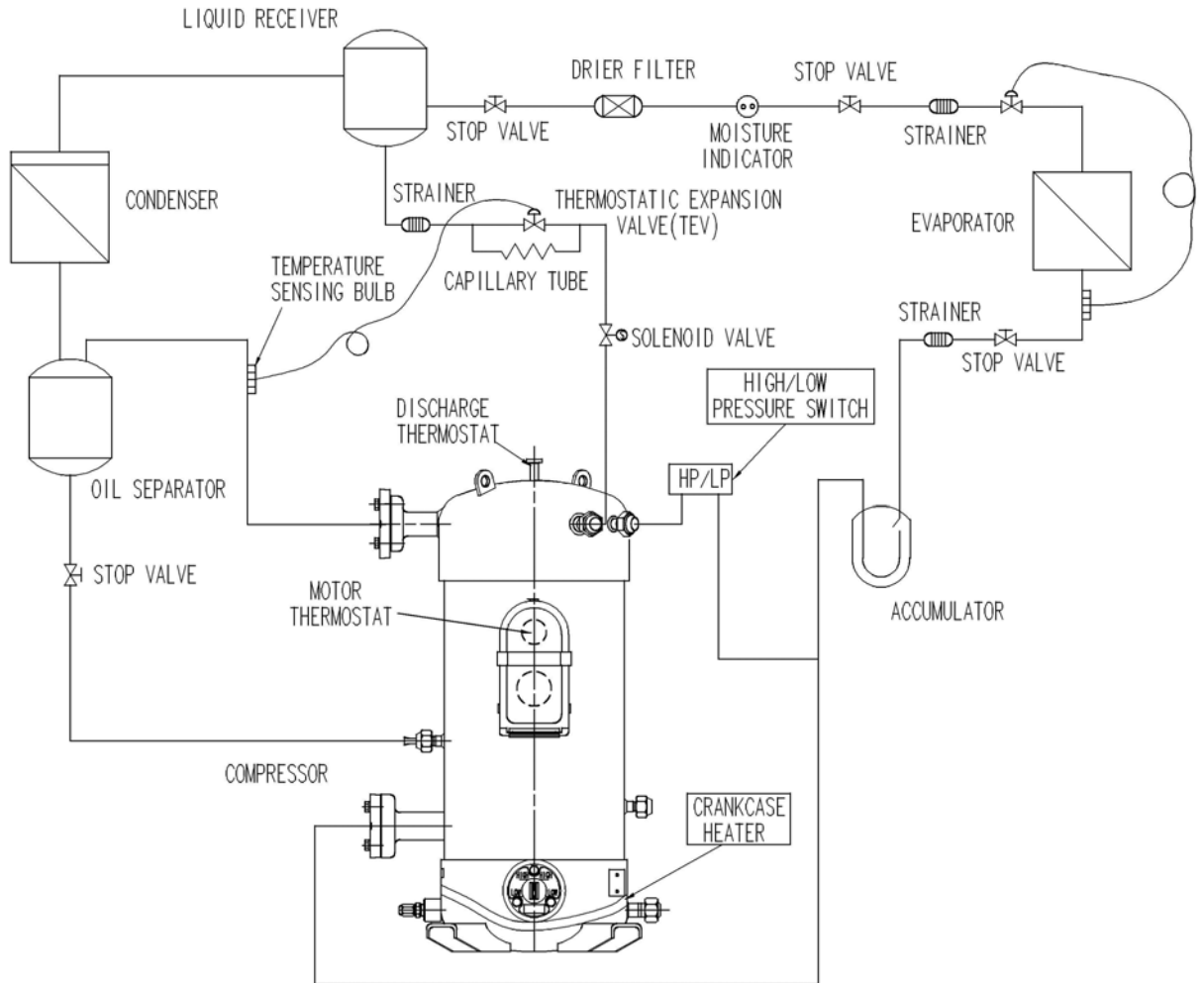
Comp. Model	OD (mm)	ID (mm)	L (mm)
C-SCN453L8H	φ 3	φ 1.4	500
C-SCN523L8H		φ 1.5	
C-SCN603L8H		φ 1.6	
C-SCN753L8H		φ 1.7	

NOTE: when apply the Capillary Tubes without TEV, please confirm below items within the full envelope of the system:

- Is the Discharge temperature below the specification values? (High load conditions)

5、Solenoid Valve: A solenoid valve must be provided in the injection circuit(before the injection port) that opens whenever the compressor is running and be closed when the compressor is in off cycle.

6、 Recommended System Configuration
 (1) Single application



(2) Tandem application

