

See-All[®] MOISTURE AND LIQUID INDICATOR

8 Outstanding Benefits

- One Indicator for Refrigerants 134a, 22, 404A, 407C, 410A, 502 and 507.** The See-All Moisture and Liquid Indicator provides a true moisture indication for Refrigerants 134a, 22, 404A, 407C, 410A and 507. The See-All[®] is also suitable for Refrigerant 409A. The dark green indicates dry and a bright yellow indicates wet. The one indicator avoids the confusion found in models with two elements. You **cannot** pick the wrong element when checking the moisture content of the system.
- Reliable and Accurately calibrated color change points.** The See-All Moisture and Liquid Indicator is accurately calibrated in parts per million of moisture for each refrigerant. All moisture indicators change color on the basis of relative saturation of the refrigerant. Therefore, liquid line temperature must be considered if an accurate calibration is to be obtained. For easy comparison, a color chart is part of the label.
- Color Changes are easily distinguished and reversible.** The indicator's color differs so widely between WET and DRY conditions that there is no possibility of confusion between the two. Colors will reverse as often as moisture concentration in the system changes.
- Large full view sightglass.** The See-All Moisture and Liquid Indicator has an extra large crystal clear sightglass for viewing the refrigerant. Bubbles indicate a shortage of refrigerants or a restriction in the liquid line.
- Indicator protected from discoloration and dirt.** The indicator is protected by a filter pad and screen. This prevents washing of the indicator by the refrigerant and protects it from system contamination and turbulence.
- Replaceable indicator element.** The color indicator paper can be changed on the new fused glass models without removing the See-All from the line. Replacement is through the bottom (see SA-14SU below). Request the K-SA-4 kit.
- Disassembly of the smaller sizes not required.** The extended steel fittings on solder models in the smaller sizes make it unnecessary to disassemble for installation since steel conducts only one eighth as much heat as copper.
- A double duty plastic cap** is supplied to keep the glass free from dust, dirt and grease. It also permits the service engineer to use his own discretion concerning instructions to his customers on observing the See-All Moisture and Liquid Indicator.



Specifications

CONNECTION SIZES Inches	MALE FLARE		FEMALE & MALE FLARE		MALE FLARE x SWIVEL NUT		SWIVEL NUT x SWIVEL NUT		FEMALE FLARE x SWIVEL NUT		SWIVEL NUT x ODF SOLDER		ODF SOLDER	
	TYPE NO.	OVERALL LENGTH mm	TYPE NO.	OVERALL LENGTH mm	TYPE NO.	OVERALL LENGTH mm	TYPE NO.	OVERALL LENGTH mm	TYPE NO.	OVERALL LENGTH mm	TYPE NO.	OVERALL LENGTH mm	TYPE NO.	OVERALL LENGTH mm
1/4	SA-12	73	SA-12FM	65	—	—	—	—	—	—	—	—	SA-12S	117
3/8	SA-13	86	SA-13FM	75	SA-13U	92	SA-13UU	100	SA-13FU	81	SA-13SU	106	SA-13S	
1/2	SA-14	97	SA-14FM	87	SA-14U	105	SA-14UU	114	SA-14FU	95	SA-14SU	117	SA-14S	124
5/8	SA-15	105	—	—	SA-15U	113	SA-15UU	121	—	—	SA-15SU	124	SA-15S	
7/8	—	—	—	—	—	—	—	—	—	—	—	—	SA-17S	160
1-1/8	—	—	—	—	—	—	—	—	—	—	—	—	SA-19S	
1-3/8	—	—	—	—	—	—	—	—	—	—	—	—	①SA-211	202
1-5/8	—	—	—	—	—	—	—	—	—	—	—	—	①SA-213	
2-1/8	—	—	—	—	—	—	—	—	—	—	—	—	①SA-217	

UL and ULc Listed - Guide SEYW-File No. SA3182

Maximum Rated Pressure for all models is 45 bar. Overall width is: 33 mm for 1/4" and 3/8" sizes, 40 mm for 1/2" and 5/8" sizes, and 35 mm for 7/8" and 1-1/8" sizes. Most solder connections can be used as male fittings as well as female fittings. The 1/4" ODF is 3/8" ODM, the 3/8" ODF is 1/2" ODM, the 1/2" ODF is 5/8" ODM, and the 5/8" ODF is 3/4" ODM. Models with female flare and/or swivel nut connections are supplied with a copper gasket in the fitting.

① These models have copper connections and feature a removable element cartridge – for replacement cartridge specify AC-20.

Moisture Content PPM

SEE-ALL SHOWS	LIQUID LINE TEMP. →	R-22		R-134a		R-404A & R-507		R-407C	R-410A
		25°C	40°C	25°C	40°C	25°C	40°C	25°C	25°C
Green DRY		Below 30	Below 45	Below 50	Below 80	Below 15	Below 30	Below 120	Below 75
Chartreuse CAUTION		30-90	45-130	50-200	80-225	15-90	30-140	120-280	75-150
Yellow WET		Above 90	Above 130	Above 200	Above 225	Above 90	Above 140	Above 280	Above 150

Note: Change or add Catch-All Filter-Drier when paper turns from green to chartreuse.