

***Retrofit Checklist for Converting CFC or HCFC Systems
to
DuPont™ ISCEON® MO29
(R422D)***

Retrofit Check List: 1) Pre- and Post- Retrofit Checks
(To be used in conjunction with DuPont Retrofit Guidelines)

Retrofit Check List: 2) Retrofit Progress Checks
(To be used in conjunction with DuPont Retrofit Guidelines)

Retrofit Check List: 3) System Data Sheet

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Retrofit Checklist for Converting CFC or HCFC Systems to DuPont™ ISCEON® MO29

DuPont™ ISCEON® MO29 Refrigerant

Retrofit Check List: 1) Pre- and Post- Retrofit Checks

Pre-Retrofit Advance Preparation for Retrofit	Check Complete
1 Ensure the Retrofit Procedure has been read Clarify any doubts with DuPont Technical Services	<input type="checkbox"/>
2 Check Service History log-book Recent refrigerant additions might signify system leaks Is current system design in agreement with log-book?	<input type="checkbox"/>
3 Leak check system If leaks found schedule repair	<input type="checkbox"/>
4 Check compressor oil management system design If no oil separator present oil level observation needed after retrofit	<input type="checkbox"/>
5 System performance check: complete data sheet See Retrofit procedure p. 8 If obvious performance problem: Correct before retrofit (or plan to do it during retrofit)	<input type="checkbox"/>
6 Identify system critical elastomeric seals See Retrofit Guidelines p.2	<input type="checkbox"/>
7 Check Compressor oil condition If doubtful schedule change	<input type="checkbox"/>
8 Ensure all needed materials will be available Seals, filter cores, etc. Recovery cylinder(s) Recovery machine, vacuum pump, Nitrogen Technical data: Retrofit Guidelines, PT data (Slide rules, etc.)	<input type="checkbox"/>

Post-Retrofit Verification of system performance and integrity	Check Complete			
	24 hrs	48 hrs	72hrs	1 week
1 Observe compressor oil level Correct if needed (see Guidelines p 3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Measure Performance Data Use Data Sheet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Carry out Leak check Correct any leaks found	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DuPont™ ISCEON® MO29 Refrigerant

Retrofit Check List: 2) Retrofit Progress Checks

Retrofit Steps	Check Complete
1 Recover old refrigerant using good refrigeration practice Use dedicated recovery cylinder(s) Weigh the recovered refrigerant De-gas the compressor oil using a vacuum pump	<input type="checkbox"/>
2 Break the vacuum using dry nitrogen Minimise ingress of moist air into the system	<input type="checkbox"/>
4 Change necessary mechanical components Filter/dryer Identified system critical elastomeric seals Replace oil if needed	<input type="checkbox"/>
5 Evacuate system. Hold under vacuum. To remove moisture. Early indication of leaks (if vacuum does not hold)	<input type="checkbox"/>
6 If indication of leak pressurise with Nitrogen. Locate leak(s). De-pressurise and correct Evacuate system. Hold under vacuum	<input type="checkbox"/>
7 Charge with ISCEON®MO29 <u>from liquid phase</u> a) If system receiver - to normal level b) If no receiver - initial 90% of R22 charge	<input type="checkbox"/>
8 Start system, measure performance data (See data sheet) Adjust refrigerant charge if needed Adjust superheat setting if needed	<input type="checkbox"/>
10 Check Compressor oil levels Adjust if necessary	<input type="checkbox"/>
11 Re-check system for refrigerant leaks	<input type="checkbox"/>
12 Label System Refrigerant (and any added/changed oil) Update log-book	<input type="checkbox"/>

