

Washington Refrigerant Management Program (RMP) – Draft Requirements
November 17, 2022

REGISTRATON – applies to all refrigeration and air conditioning equipment located in Washington with a charge of 50 pounds or more in a single circuit							
System Size (charge size in lbs)	Number of Facilities (in WA)	Equipment Type (AC/refrigeration)	Registration Deadline	Annual Fee (based on size)	Initial Implementation Fee	Fee Due Date	Other
1,500 or more	1,103	Refrigeration	3/1/24	\$370	\$150	4/1/24	
1,500 or more	5,661	AC	3/1/24	\$370	\$150	4/1/24	
200 to 1,499	1,717	Refrigeration	3/1/26	\$170	\$75	4/1/26	
200 to 1,499	25,659	AC	3/1/26	\$170	\$75	4/1/26	
50 to 199	1,685	Refrigeration	3/1/28	0	0	N/A	
50 to 199	39,431	AC	3/1/28	0	0	N/A	

LEAK INSPECTIONS & CORRECTIVE ACTION – applies to all refrigeration and air conditioning equipment located in Washington with a charge of 50 pounds or more in a single circuit						
System Size (charge size)	Equipment Type	Leak Inspection Rate (frequency)	Leak Thresholds (exceedance triggers notification)	Time to Correct	Verification Tests	Corrective Action Plans
1500 or more	Refrigeration	Monthly, unless functioning auto leak detector installed Plus inspection required anytime more than 5 pounds or 1% of total refrigerant charge is added	16%: retail or centralized system 16%: cold storage 24%: IPR	Within 14 days of any leak detection Or, within 45 days if one or more of the following applies: 1. No certified technician available; 2. Equipment parts are unavailable; or 3. Requires industrial process shut down Or, within 120 days if all of the following applies : 1. owner/operator is subject to mandatory federal GHG reporting; 2. Equipment is IPR appliance; 3. Requires IPR to shutdown to correct; and 4. Written records are maintained to document all conditions that exist.	Initial verification test required upon completion of leak repairs If system was evacuated during repair, a follow up verification test must be conducted when the system returns to normal operating conditions (within 10 days). If system was not evacuated, only initial verification test required	If leak is not corrected within 14, 45, or 120 day timeframe after the initial 14, 45, or 120 timeframe, a retrofit or retirement plan must be developed within 30 days. Plan must establish schedule for retrofit or retirement to be completed no later than 6 months following date of leak detection. If leak threshold is exceeded and repair is not corrected after second 14, 45, or 120 day timeframe, the retrofit or retirement plan must be submitted within 30 days. Plan must establish schedule for retrofit or retirement to be completed no later than 6 months following date of leak threshold exceedance.
1500 or more	AC	Monthly, unless functioning auto leak detector installed Plus inspection required anytime more than 5 pounds or 1% of total refrigerant charge is added	8%	Within 14 days of any leak detection Or, within 45 days if one or more of the following applies: 1. No certified technician available; 2. Equipment parts are unavailable; or 3. Requires industrial process shut down Or, within 120 days if all of the following applies: 1. owner/operator is subject to mandatory federal GHG reporting; 2. Equipment is IPR appliance; 3. Requires IPR to shutdown to correct; and 4. Written records are maintained to document all conditions that exist	If system was evacuated during repair, the follow up verification test must be conducted when the system is operating at normal operating characteristics and conditions (within 10 days) If system was not evacuated, only initial verification test required	If leak is not corrected within 14, 45, or 120 day timeframe after the initial 14, 45, or 120 day timeframe, a retrofit or retirement plan must be developed within 30 days. Plan must establish schedule for retrofit or retirement to be completed no later than 6 months following leak detection. If leak threshold is exceeded and repair is not corrected after second 14, 45, or 120 day timeframe, the retrofit or retirement plan must be submitted within 30 days. Plan must establish schedule for retrofit or retirement to be completed no later than 6 months following date of leak threshold exceedance.
200 to 1499	Refrigeration	Every 3 months unless functioning auto leak detector installed Plus anytime more than 5 pounds or 1% of total charge of refrigerant is added	16%: retail or centralized system 16%: cold storage 24%: IPR	Same leak repair requirements as large refrigeration	Same leak repair requirements as large refrigeration	Same corrective action requirements as large refrigeration
200 to 1499	AC	Every 3 months unless auto detector	8%	Same leak repair requirements as large AC	Same leak repair requirements as large AC	Same corrective action requirements as large AC

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50 - 199	Refrigeration	Annually, unless functioning auto leak detector installed Plus anytime more than 5 pounds or 1% of total charge of refrigerant is added	16%: retail or centralized system 16%: cold storage 24%: IPR	Same leak repair requirements as large refrigeration	Same leak repair requirements as large refrigeration	Same corrective action requirements as large refrigeration
50 - 199	AC	Annually, unless functioning auto leak detector installed	8%	Same leak repair requirements as large AC	Same leak repair requirements as large AC	Same corrective action requirements as large AC

REPORTING – applies to all refrigeration equipment and air conditioning equipment located in Washington with a charge of 50 pounds or more in a single circuit							
System Charge Size - lbs	Equipment Type	Annual Report Due	Report Contents (facility info)	Report Contents (equipment info)	Report Contents (service and leak repair info)	Report Contents (refrigerant purchases and use info)	Submittal Frequency
1500 or more	Refrigeration	3/1/25 (for calendar year 2024 and each year thereafter)	<ul style="list-style-type: none"> Name of operator; NAICS code Facility name and identifier (store #) Facility mailing address Facility physical address Facility contact person name, phone & email 	<ul style="list-style-type: none"> Equipment ID#, assigned by owner/operator Equipment type Equip manufacturer Equip model or description Equip model year Equip serial # (unless part of assembly) Physical location of equipment in facility; Temp classification (low, med) Full charge of system Type of high-GWP refrigerant used 	<p>Following for each ALD audit, leak inspection, service or leak repair visit:</p> <ul style="list-style-type: none"> Annual leak rate Date each leak detected Date of each service/leak repair Cause of leak Description of service/leak repair Date of initial verification Date of follow up verification, if required Total additional refrigerant charge of each type of high-GWP Purpose of additional charge (leak repair, top off, initial charge, seasonal adjustment) Name of certified technician Certified technician's identification number issued by certification program pursuant to 40 CFR 82.161 Certified technician's certification type issued under 40 CFR 82.161 	<p>Total weight (lbs) each type of high-GWP refrigerant:</p> <ul style="list-style-type: none"> Purchased during calendar year, into a refrigeration system during calendar year Recovered from a refrigeration system during calendar year Stored in inventory at the facility, or at a different location for use by facility on last day calendar year, if applicable Shipped by owner or operator for reclamation and destruction during calendar year 	<ul style="list-style-type: none"> Annual Notify Ecology upon leak threshold exceedance (based on rolling average) within 30 days of determination) Notify Ecology upon completion of repair verification test within 45 days of leak exceedance determination Notify Ecology upon completion of follow up verification test (if applicable) within 60 days of leak exceedance determination Notify Ecology within 30 days of completion of work under retrofit or retirement plan (if plan is submitted)
1500 or more	AC	3/1/25 (for calendar year 2024 and each year thereafter)	<ul style="list-style-type: none"> Name of operator; NAICS code Facility name and identifier (store #) Facility mailing address Facility physical address Facility contact person name, phone & email 	<ul style="list-style-type: none"> Equipment ID#, assigned by owner/operator Equipment type Equip manufacturer Equip model or description Equip model year Equip serial # (unless part of assembly) Physical location of equipment in facility Full charge of system Type of high-GWP refrigerant used 	<p>Following for each ALD audit, leak inspection, service or leak repair visit:</p> <ul style="list-style-type: none"> Annual leak rate Date leak detected Date of service/leak repair Cause of leak Description of service/leak repair Date of initial verification Date of follow up verification, if req'd Total additional refrigerant charge of each type of high-GWP, if applicable. Purpose of additional charge (leak repair, top off, initial charge, seasonal adjustment) Name of certified technician Certified technician's identification number issued by certification program pursuant to 40 CFR 82.161 	<p>Total weight (lbs) each type of high-GWP refrigerant:</p> <ul style="list-style-type: none"> Purchased during calendar year Charged into a refrigeration system during calendar year Recovered from a refrigeration system during calendar year Stored in inventory at the facility, or at a different location for use by facility on last day calendar year. Shipped by owner or operator for reclamation and destruction during calendar year. 	<ul style="list-style-type: none"> Annual Notify Ecology upon leak threshold exceedance (based on rolling average) within 30 days of determination) Notify Ecology upon completion of repair verification test within 45 days of leak exceedance determination Notify Ecology upon completion of follow up verification test (if applicable) within 60 days of leak exceedance determination Notify Ecology within 30 days of completion of work under retrofit or retirement plan (if plan is submitted)

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System Charge Size - lbs	Equipment Type	Annual Report Due	Report Contents (facility info)	Report Contents (equipment info)	Report Contents (service and leak repair info)	Report Contents (refrigerant purchases and use info)	Submittal Frequency
					<ul style="list-style-type: none"> • Certified technician’s certification type issued under 40 CFR 82.161 		
200 to 1499	Refrigeration	3/1/27 (for calendar year 2026 and each year thereafter)	Same as large refrigeration	Same as large refrigeration	Same as large refrigeration	Same as large refrigeration	Same as large refrigeration
200 to 1499	AC	3/1/27 (for calendar year 2026 and each year thereafter)	Same as large AC	Same as large AC	Same as large AC	Same as large AC	Same as large AC
50 to 199	Refrigeration	N/A	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> • No annual report • Notify Ecology upon leak threshold exceedance (based on rolling average method) within 30 days of determination • Notify Ecology upon completion of repair verification test within 45 days of leak exceedance determination. • Notify Ecology upon completion of follow up verification test (if applicable) within 60 days of leak exceedance determination • Notify Ecology within 30 days of completion of work under retrofit or retirement plan (if plan is submitted)
50 to 199	AC	N/A	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> • No annual report • Notify Ecology upon leak threshold exceedance (based on rolling average method) within 30 days of determination • Notify Ecology upon completion of repair verification test within 45 days of leak exceedance determination. • Notify Ecology upon completion of follow up verification test (if applicable) within 60 days of leak exceedance determination • Notify Ecology within 30 days of completion of work under retrofit or retirement plan (if plan is submitted)
All	Refrigerant distributors and wholesalers	3/1/25 (for calendar year 2024 and each year thereafter)	<ul style="list-style-type: none"> • Name of distributor or wholesaler • Mailing address • Name of contact person, email and phone # • Name of all facilities under operational control 	N/A	N/A	<ul style="list-style-type: none"> • Total statewide <u>aggregated</u> weight (lbs) purchased/received for subsequent resale/delivery for purposes other than reclamation • Total statewide <u>aggregated</u> weight (lbs) of each type of high GWP refrigerant sold or distributed, excluding sales 	<ul style="list-style-type: none"> • Annual

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System Charge Size - lbs	Equipment Type	Annual Report Due	Report Contents (facility info)	Report Contents (equipment info)	Report Contents (service and leak repair info)	Report Contents (refrigerant purchases and use info)	Submittal Frequency
			<ul style="list-style-type: none"> Name of contact person and address for each facility under operational control 			<ul style="list-style-type: none"> outside WA or to a refrigerant wholesaler or distributor for resale Total statewide <u>aggregated</u> weight of high GWP refrigerant shipped to certified reclaimer 	
All	Certified reclaimers	3/1/25 (for calendar year 2024 and each year thereafter)	<ul style="list-style-type: none"> Name of certified reclaimer Mailing address, including street Name of contact person, email, and phone # Name of all certified reclaimer facilities under operational control of reclaimer Address of each certified reclaimer facility under operational control Name of contact person, email, and phone # for each certified reclaimer facility under operational control. 	N/A	N/A	<ul style="list-style-type: none"> Total statewide annual <u>aggregated</u> weight (lbs) of high-GWP refrigerant received by reclaimer for destruction or reclamation. Total statewide annual <u>aggregated</u> weight (lbs) of high-GWP refrigerant that was reclaimed in WA Total statewide annual <u>aggregated</u> weight (lbs) of high-GWP refrigerant that was shipped out of WA for reclamation Total statewide <u>aggregated</u> weight (lbs) of high GWP refrigerant that was destroyed or shipped out of WA for destruction 	<ul style="list-style-type: none"> Annual

RECORDKEEPING – applies to all refrigeration and air conditioning equipment located in Washington with a full charge of 50 pounds or more in a single circuit				
System Size (charge size)	Equipment Type	Records	Length of time	Storage
1500 or more	Refrigeration	<ol style="list-style-type: none"> All registration information required under RMP Documentation of all leak detection systems, leak inspections, and ALD system annual audit and calibrations required under RMP Records of all system service and refrigerant leak repairs and documentation of any conditions allowing repair of a refrigerant leak to be conducted more than 14 days after detection as required under RMP Any retrofit or retirement plans required under RMP All reports required under RMP (annual reports) Any application for exemption submitted under RMP and any notification of an exemption approved, denied, or revoked or modified under RMP Invoices of all refrigerant purchases Records of all shipments of refrigerants for reclamation or destruction and must include the following info: <ol style="list-style-type: none"> Name/address of person the high-GWP refrigerant was shipped to Weight in pounds of high-GWP refrigerant shipped Type of high-GWP refrigerant shipped Date of shipment Purpose of shipment (reclamation, destruction, etc.) Records of all refrigeration system component data, measurements, calculations, and assumption used to determine the full charge 	5 years	Must be kept at facility where the equipment is located.
1500 or more	AC	Same as for large refrigeration systems	5 years	Must be kept at facility where the equipment is located.
200 to 1499	Refrigeration	Same as for large refrigeration systems	5 years	Same as large refrigeration
200 to 1499	AC	Same as for large refrigeration systems	5 years	Same as large AC

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System Size (charge size)	Equipment Type	Records	Length of time	Storage
50 - 199	Refrigeration	Same as for large refrigeration systems	5 years	Same as large refrigeration
50 - 199	AC	Same as for large AC systems	5 years	Same as large AC
All	Refrigerant distributors, wholesales, and reclaimers	1. Annual reports submitted under reporting requirement 2. Invoices of all high-GWP refrigerant <u>received</u> through sale or transfer and all high-GWP refrigerant <u>distributed</u> through sale or transfer. Invoices must indicate name of purchaser, date of sale, quantity, and type of high-GWP refrigerant purchased, sold, or transferred.	5 years	Must be kept at facility of wholesaler, distributor, reclaimer and made available on request

SYSTEMS NOT OPERATED YEAR-ROUND				
System Size (charge size)	Equipment Type	Leak Inspection Rate (frequency)	Leak Inspection Equipment	
1500 or more	Refrigeration	Within 30 days after starting each operation; and every three months thereafter; unless there has been a leak inspection within preceding 90 days of starting	Must be conducted using a calibrated refrigerant leak detection device, a bubble test, or observation of oil residue	
1,500 or more	AC	Within 30 days after starting each operation; and every three months thereafter; unless there has been a leak inspection within preceding 90 days of starting	Must be conducted using a calibrated refrigerant leak detection device, a bubble test, or observation of oil residue	
200 to 1499	Refrigeration	Within 30 days after starting each operation; and every three months thereafter; unless there has been a leak inspection within preceding 90 days of starting	Must be conducted using a calibrated refrigerant leak detection device, a bubble test, or observation of oil residue	
200 to 1499	AC	Within 30 days after starting each operation; and every three months thereafter; unless there has been a leak inspection within preceding 90 days of starting	Must be conducted using a calibrated refrigerant leak detection device, a bubble test, or observation of oil residue	
50 to 199	Refrigeration	Within 30 days of starting each operation	Must be conducted using a calibrated refrigerant leak detection device, a bubble test, or observation of oil residue	
50 to 199	AC	Within 30 days of starting each operation	Must be conducted using a calibrated refrigerant leak detection device, a bubble test, or observation of oil residue	

SERVICE REQUIREMENTS	
Who	Service Requirements
Technicians	<ol style="list-style-type: none"> 1. Must be EPA certified to conduct leak inspection, work with refrigerant and make repairs on refrigeration and AC equipment; 2. Must not intentionally disrupt refrigerant circuit of the appliance resulting in a discharge of refrigerant to the atmosphere, unless an attempt to recover refrigerant is made using certified refrigerant recovery or recycling equipment; 3. Must use certified refrigerant recovery or recycling equipment as specified by certified equipment manufacturer; unless manufacturer specifications conflict with procedures approved by EPA; 4. May not add an additional refrigerant charge to any appliance (refrigeration or AC) known to have a refrigerant leak, except that it is permissible to add additional refrigerant charge required to maintain operations while preparing or conducting leak repair as required under RMP; 5. May not add any additional refrigerant to an appliance during manufacture or service, unless such refrigerant: consists wholly of a class I or class II substance identified under Section 602 of the federal CAA; or is an alternative that has been found acceptable under the EPA SNAP program under Section 612 of the federal CAA; 6. Must evacuate refrigerant from a nonrefillable cylinder to a <u>vacuum of 15 inches of mercury</u>, before recycling or disposal; 7. Must satisfy job site evacuation of refrigerants during recycling, recovering, reclaiming, or disposing in accordance with 40 CFR 82.156, as amended Jan 11, 2005.

New Terms

- Additional refrigerant charge (CARB RMP rule)
- Appliance (40 CFR 82.3, CARB RMP rule)
- Automatic leak detection (CARB RMP rule)
- Certified reclaimer (CARB RMP rule—cites to 40 CFR Part 82, Section 82.152, as amended 4/13/05)
- Certified refrigerant recovery or recycling equipment (40 CFR 82.152, CARB RMP rule)
- Certified technician (CARB RMP rule – EPA certification pursuant to 40 CFR 82.161)
- Comfort cooling (40 CFR 82.152)
- Detected refrigerant leak (CARB RMP rule)
- Disposal (40 CFR 82.152; - applies to appliances, not to the refrigerant)
- Enclosed building or structure (CARB RMP rule)
- Follow up verification test (40 CFR 82.152 and CARB RMP rule)
- Full charge (40 CFR 82.152, CARB RMP rule)
- Industrial process shutdown (40 CFR 82.156)
- Leak inspection (40 CFR 82.152, CARB RMP rule)
- Leak rate (40 CFR 82.152, as amended 4/13/05 and 40 CFR 82.156)
- Owner (CARB RMP rule; CARB HFC rule)
- Recover (40 CFR 82.152, CARB RMP rule)
- Recycle (CARB RMP rule)
- Refrigerant circuit (40 CFR 82.152 and CARB RMP rule)
- Refrigerant distributor or wholesaler (CARB RMP rule)
- Retire (CARB HFC rule; 40 CFR 82.152, CARB RMP rule)
- System mothballing or mothball (CARB RMP rule; 40 CFR 82.152; 40 CFR 82.156)
- Technician (40 CFR 82.152)
- Topping off (CARB RMP rule)
- Total evaporator cooling load (CARB RMP rule)

Regulated entities: RMP applies to all facilities using refrigeration and air conditioning systems having a charge of 50 pounds or more

Comfort cooling: Owners or operators of air-conditioning equipment used in the following: Hospitals, office buildings, colleges and universities, metropolitan transit authorities, real estate rental and leased properties, lodging and food services, property management, schools, and public administration or other public institutions.

Commercial refrigeration: Owners or operators of refrigerated warehousing and storage facilities, supermarkets, grocery stores, warehouse clubs, supercenters, convenience stores, and refrigerated transport.

Industrial; process refrigeration: Owners or operators of refrigeration equipment used in agriculture and crop production, oil and gas extraction, ice rinks, and the manufacture of frozen food, dairy products, food and beverages, ice, petrochemicals, chemicals, machinery, medical equipment, plastics, paper, and electronics.