

The CMR 4.00 Guide © 6th Edition Checklist

ALL INSTALLATIONS

- ___ 4.03 (1)e Over 10,000 gallons on site requires License & Permit from local community
- ___ 4.03 (1)d All applications must be on Form 1 or Form 1A and as specified by the Commonwealth with no modifications by local fire departments.
- ___ 4.03 (1)g Certificate of Competency required, no other license is acceptable.
- ___ 4.03 (1)(i) When an oil tank is removed, remove all fill and vent pipes.

BURNER INSTALLATIONS

- ___ 4.04 (3)a Verify emergency shut-off is outside burner room (smoke enclosure)
- ___ 4.04 (4)b Verify separate electrical circuit for oil burner
- ___ 4.04 (4)e Verify presence of overhead thermal switch
- ___ 4.04 (4)c Verify presence of service switch within 3' of burner
- ___ 4.04 (3)c (1) Primary control has safety timing of 45 seconds (max.)
- ___ 4.04 (3)d Steam boiler is equipped with low-water cutoff
- ___ 4.04 (4)f Clear access to clean out and service panels
- ___ 4.04 (5)b No oil leaks are present at burner
- ___ 4.04 (5)d Installation instructions are present on site
- ___ 4.04 (5)m 18" above floor if in garage, separate air supplied units exempt
- ___ 4.04 (5)f If there are overhead combustible clearances within 5 feet over unit Gypsumboard or sprinkler is required unless the unit is AFUE or EF rated (no minimum efficiency)
- ___ 4.04 (5)g Combustion test results are on Form 1
- ___ 4.04 5(o)1 Adequate clearances per manufacturers listing are present from combustibles

VENTING

- ___ 4.04 (9)(b)17 Chimney connector shall be constructed as per table 4.04 3.
- ___ 4.04 (9)(b)8 Seams must face chimney and pipe must be same size as appliance outlet
- ___ 4.04 (9)b (12) Three metal screws are at each joint in the chimney connector that shall be securely supported
- ___ 4.04 (9)b (7) Thimble is present at the chimney connection
- ___ 4.04 (9)d If a power venter is present;
Check for air pressure switch and post purge control, that it is of a listed type for use with oilfired equipment, installed as close to the vent hood as possible and that the installation instructions are present on site
- ___ 4.04 (5)(i) Adequate draft will be present at all times

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- ___ 4.04 (9)(b)11 Heat reclaimers are allowed.
- ___ 4.04 (9)f Draft regulator is present unless exempted and installed properly
- ___ 4.04 (5)m Adequate air is present for combustion and ventilation
- ___ 4.04(3)7 4.04(3)8 Electrically interlocked fans

OIL LINES

- ___ 4.04 (1)e All oil lines (supply and return) must be rigidly secured, and protected from injury and be sleeved if in contact with concrete, earth or floor surfaces. Returns must be sleeved.
- ___ 4.04 (1)c No Teflon tape on oil line or on oil line fittings
- ___ 4.04 (1)c No compression fittings are permitted, but swaged fittings are allowed
- ___ 4.04 (1)c Standard solder joints are permitted (brazed only)
- ___ 4.04 (1)(g) No concealed joints
- ___ 4.04 (2)I Thermal valves at burner and tank, 1 valve at each location only and at all service points
- ___ 4.03 (10)b Return lines must enter the top of tanks and be sleeved
- ___ 4.04 (1)f Oil lines exposed to freezing temperatures must come off the top of tanks, but lines for kerosene, and range oil (#1) are exempt
- ___ 4.04 (1)j A listed oil filter is present
- ___ 4.04 (1)i No oil leaks present at tank or filter
- ___ 4.03 (5)I Outlet cross connection at bottom of tanks must be 1/2" pipe or tubing

TANK INSTALLATIONS

- ___ 4.03 (5)b Tank must be UL80 or UL2258 (under 660 gal) or UL 142 (over 660 gal) construction
- ___ 4.03 (9)c Vent pipes must be two feet from building openings
- ___ 4.03 (10)a Fill pipes must be two feet from building openings
- ___ 4.03 (10)a Fill pipes must have tamper proof identifying caps
- ___ 4.03 (9)c Vent pipes must have weatherproof caps and end three feet above grade
- ___ 4.03 (11)c Inside tanks have audible fill device (ventalarm)
- ___ 4.03 (5)k Non-combustible tank supports, secured against movement
- ___ 4.03 (8)c Damaged protective coatings must be recovered
- ___ 4.03 (6)f Tanks exposed to vehicles will be protected by barriers
- ___ 4.03 (8)c Tank does not block means of egress

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- ___ 4.03 (11)c Oil tight gauges
- ___ 4.03 (6)e Bottom outlet tanks shall be pitched to the opening
- ___ 4.03 (5)l Tanks are mounted on a continuous slab that extends 8” beyond the tank perimeter

UNENCLOSED TANKS

- ___ 4.03 (6)b Single tanks shall not be larger than 660 gallons
- ___ 4.03 (6)b Maximum aggregate capacity of unenclosed multiple tanks is 1320 gallons
- ___ 4.03 (6)d Unenclosed tanks shall be at least five feet from an internal or external flame
- ___ 4.03 (6)d Unenclosed tanks shall not obstruct service meters, panels and shutoff valves
- ___ 4.03 (9)d Two tanks may be series cross-connected as shown in Figure 4.03 1.
- ___ 4.03 (5)f Size of vent is as per Table 4.03A
- ___ 4.03 (5)g Oil tank gauge must be present to determine oil level

ENCLOSED TANKS

- ___ 4.03 (7)a Over 660 gallon tanks enclosed by two hour fire resistive assembly
- ___ 4.03 (7)b Tank enclosures provided with 6” high tight sills or ramps
- ___ 4.03 (7)d Tank is 4” above floor supported by 12” thick masonry saddles spaced not more than eight feet on centers and 15” from top and walls of enclosure
- ___ 4.03 (7)e All oil must be transferred by pump, and connections must be made at the top of the tank

OUTSIDE TANKS

- ___ 4.03 (8)a All UST’s and tanks over 660 gallons must be installed as per CMR 9.00
- ___ 4.03 (8)c 660 gallon maximum aggregate capacity to each oil burner
- ___ 4.03 (8)c The tank is protected from physical damage
- ___ 4.03 (8)d Tank is supported by rigid non-combustible supports and are mounted on a continuous 4” thick slab that extends 8” beyond the tank perimeter