

MECHANICAL DRAWINGS

Sealed by a mechanical engineer registered in the State of Arizona (if applicable). 2018 International Mechanical Code with city of Phoenix Amendments (IMC). ☐ Site plan documenting location of project. ☐ Complete Mechanical floor plan for the entire project area IBC 107.2.1 ☐ Mechanical energy conservation code compliance for HVAC equipment, duct insulation, controls, economizers, pipe insulation IECC C403. ☐ Mechanical layout (A/C units, air-handlers, ducts, diffusers, etc.) IMC 303, 304, 306, 308, 309, 603. ☐ Mechanical equipment listings, specifications and weights IMC 301. ☐ Cooling load calculations IMC 312. ☐ Outside air ventilation calculations IMC 401, 402, 403, Table 403.3. ☐ Air-balance schedule IMC 403, 501.4. ☐ Air-balance report required to be submitted to Inspector (note on plans) IMC 403.7. ☐ HVAC equipment condensate disposal IMC 307. ☐ Independent exhaust systems and discharge IMC 501.2, 501.3. ☐ Bulk CO₂ installation for restaurants, IMC 502.21 (City of Phoenix amendment) MMJ odor control, IBC 307, PFC chapter 39, PFC table 5003, IMC 403, IMC 501, IMC 510, IMC 408 (City of Phoenix amendments) ☐ Exhaust airflow rates based on Table 403.3 IMC 403. ☐ Battery charging ventilation systems IMC 502.4, 503.1, PFC 608. ☐ Clothes dryer exhaust systems IMC 504. ☐ Commercial cooking grease exhaust systems IMC 506, 507, 508, PFC 609. Page 1 of 2

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Hazardous exhaust ventilation systems IMC 510, PFC 5003
Paint spray booth, IMC 502, IMC 503, IMC 408 (City of Phoenix amendments)
Motor vehicle repairs, IMC 502.14, IMC 502.15, IMC 502.16
Make-up air for exhaust systems [sizes and locations] IMC 504.5, 505.2, 508, 510.5.5.
Duct detector automatic shutoff of HVAC systems in excess of 2,000 cfm IMC 606.
HVAC duct detector audible/visual alarms and trouble lights IMC 606.4.
HVAC automatic shutoff test report required to be submitted to Inspector IMC 606.5.
Fire/smoke damper location and specifications IMC 607, IBC 717.
Boilers, water heaters and pressure vessels IMC 1001, IBC 1015.3.
Refrigeration systems including walk-in freezers/coolers, machinery rooms and mechanical chiller systems and monitoring, IMC 1101, PFC 605, IBC 509.4, Table 509, IBC 1006.2.2, 1006.2.2.3
Hydronic piping system layouts, materials, sizing IMC 1201.
Solar water heating systems for space heating/cooling, domestic hot water heating, swimming pool or process heating IMC 1401.
Combustion-air openings sizes and locations IMC 701 (other than gas-fired appliances, for gas-fired appliances see International Fuel Gas Code).
Identify any mechanical special inspection items (duct detectors, fire and/or smoke dampers, grease duct enclosures) IBC 1705.