

Project Name:

Contact Person:

Telephone:

Prescriptive Checklist

Prescriptive Economizers (§ 6.5.1)

- Systems employ airside economizers (§ 6.5.1.1).
- Economizer provides up to 100% design airflow in outdoor air (§ 6.5.1.1.1).
- Economizer is integrated with the mechanical cooling system (§ 6.5.1.1.2 and § 6.5.1.3).
- Economizer high limit shutoff complies with § 6.5.1.1.3.
- Economizer dampers meet or exceed leakage requirements (§ 6.5.1.1.4).
- System provides relief for up to 100% design airflow in outdoor air (§ 6.5.1.1.5).
- Economizer complies with the heating system impact requirements (§ 6.5.1.4).
- Systems employ waterside economizers.
- Economizer can provide 100% of the load at either the outdoor conditions of 50°F db/45°F wb or 45°F db/40°F wb where required for dehumidification purposes (§ 6.5.1.2.1).
- Precooling coils and heat exchangers have either a ≤ 15 ft of WC pressure drop or are bypassed when economizer is not in use (§ 6.5.1.2.2).
- Economizer is integrated with the mechanical cooling system (§ 6.5.1.3).
- Economizer complies with the heating system impact requirements (§ 6.5.1.4).
- Systems are exempt from the economizer requirements.

Specify economizer exemptions:

Prescriptive Air-System Requirements

- Simultaneous Heating and Cooling (§ 6.5.2.3).
- Zone minimums were set to meet the requirements of *Standard 62*.
- Zone minimums were set to ≤ 0.4 cfm/ft² of zone conditioned floor area.
- Zone minimums are less than 300 cfm.
- Other (requires special documentation and approval).
- Humidity controls (if any) comply with the requirements of § 6.5.2.3.
- Systems that employ hydronic cooling and have humidification (if any) use a waterside economizer that complies with § 6.5.1.
- Variable air volume fan controls comply with the requirements of § 6.5.3.2.

Prescriptive Water-System Requirements

- Three-pipe systems are not used (§ 6.5.2.2.1).
- Two-pipe changeover heating/cooling systems (if any) comply with the requirements of § 6.5.2.2.2.
- Hydronic (ground- or water-loop) heat pump systems that have equipment for both loop heat addition and loop heat rejection (if any) comply with the requirements of § 6.5.2.2.3.

- System pumps greater than 10 hp employ variable flow controls (§ 6.5.4.1), pump isolation (§ 6.5.4.2) and temperature reset (§ 6.5.4.3).

Prescriptive Special System Requirements

- All heat rejection equipment with motors ≥ 7.5 hp employ controls that comply with § 6.5.5.
- Exhaust Air Energy Recovery: all fan systems that have both a design supply capacity of $\geq 5,000$ cfm and a minimum outdoor air supply of $\geq 70\%$ of the design supply air employ an energy recovery system that complies with § 6.5.6.1.
- Heat recovery for service water heating is provided for facilities that operate continuously, have a total water-cooled heat rejection capacity exceeding 6,000,000 btu/h, and have a design service water heating load exceeding 1,000,000 btu/h. The heat recovery system (if any) complies with § 6.5.6.2.
- Kitchen hoods with exhaust flows > 5000 cfm comply with the requirements of § 6.5.7.1.
- Fume hoods with a total exhaust system flow $> 15,000$ cfm comply with the requirements of § 6.5.7.2.
- Radiant heaters complying with § 6.5.8.1 are used to heat unenclosed spaces (if any).
- The cooling equipment with hot-gas bypass controls (if any) meets the unloading requirements of § 6.5.9.

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Complete one worksheet for each fan system > 5hp

Prescriptive Fan Power Limitations (§ 6.5.3.1)

Supply Fan			Return Fan		Exhaust Fan		Series-Style Fan-Powered Box		Total System Motor (hp)
Tag	Supply CFM	Motor (hp)	Tag	Motor (hp)	Tag	Motor (hp)	Tag	Motor (hp)	
←Total Supply CFM		Total System Motor HP →							

Table 6.5.3.1 Value	_____	hp/cfm
Total Supply CFM	X	_____ cfm
Constant	÷	<u>1,000</u>
HP Allowance	=	_____ hp (=Value X CFM/1000) ≥ _____
Credits and/or adjustments* →		
Adjusted HP Allowance*		_____ hp (see § 6.5.3.1) ≥ _____

* Attach calculations and documentation if credits or temperature adjustments are used. Refer to § 6.5.3.1 for the formulas

Credits and adjustments are available for the following:

- Clean filter pressure drops in excess of 1 in. w.c.;
- Pressure drop due to heat recovery coils or devices or evaporative cooling equipment or devices;
- Relief fans that operate during peak cooling due to high ventilation rates; and
- Room to cooling air supply temperature differences that are greater than 20°F (e.g. low temperature supply).