

TangAir™ 节能控制器IFC的技术特性

TangAir™ Intelligent Flow Controllers Features

- Specific solution through air audit
- Downstream/Upstream controllers
- Constant pressure within ± 1 PSI(0,07bar)
- Pressure schedule
- All fail open & Automatic bypass
- Power failure auto restart
- Microprocessor based digital closed loop feedback control
- Optional PC/remote control
- Built-in air treatment for pilot air
- Convenient packaged installation
- Low energy and maintenance cost
- 1 year warranty on package
- 2 years warranty on flow control modules
- 基于系统评估的定制方案
- 上游/下游流量控制
- 恒定的压力输出 ± 1 PSI(0,07bar)
- 智能压力的程管理
- 全工况失效安全旁通模式
- 无值守自动控制
- 智能微电脑闭环回路控制
- 可实现远程控制
- 寿命长、可靠性高
- 整体式结构，安装简单
- 运行及维护成本低
- 整机1年保固
- 流量控制模块2年保固

节能的故事，每天都在身边发生



本产品(原Sullair IFC产品)已为富士康科技集团(FOXCONN)、海尔集团(Hair)、广汽本田(HONDA)、华茂纺织集团、苏州凯硕电脑(ASUS)、广东双水发电、中集集团(CIMC)等众多知名企业实施了节能方案，其所覆盖的空压站容量超过30,000KW。

仅以65%负荷、年运行6,000小时、3%节能比测算，可节电超过350万度/年，减CO₂排放3,000吨/年，减SO₂污染10吨/年。



TangAir™

Intelligent Flow Controllers

TangAir™ IFC产品型号及技术参数

TangAir™ Intelligent Flow Controllers Specifications

型号 Model	流量(m ³ /min) Flow(m ³ /min)	接口法兰 Flange	接口中心距(mm) Centre Distance(mm)	外形尺寸(mm) Dimensions(mm)	重量(kg) Weight(kg)
SF-10	14	3"	651	1000 × 750 × 1050	230
SF-20	28	3"	651	1000 × 750 × 1050	240
SF-30	42	4"	651	1000 × 750 × 1050	300
SF-45	63	6"	651	1000 × 750 × 1050	350
SF-60	84	6"	950	1430 × 850 × 1350	580
SF-75	105	6"	950	1430 × 850 × 1350	590
SF-90	126	8"	950	1430 × 850 × 1350	650
SF-120	168	8"	950	1430 × 850 × 1350	700
SF-150	210	8"	950	1430 × 850 × 1350	750
SF-200	280	10"	1100	1700 × 1000 × 1500	850
SF-250	350	10"	1100	1700 × 1000 × 1500	950
SF-300	424	12"	1100	1700 × 1000 × 1500	1050
UPC-10	14	3"	651	1000 × 750 × 1050	200
UPC-20	28	3"	651	1000 × 750 × 1050	240
UPC-30	42	4"	651	1000 × 750 × 1050	300
UPC-45	63	6"	651	1000 × 750 × 1050	350
UPC-60	84	6"	950	1430 × 850 × 1350	580

说明:
1. 技术参数如有变更恕不另行通知, 本公司拥有最终解释权。
2. 进出口方向标配为左进右出, 如需左右进左出, 需订单注明。
3. 设备出厂自带配对法兰(ANSI标准)。



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TangAir™

压缩气体节能控制器

Intelligent Flow Controllers(IFC)

超过2500台安装量, 每年节约费用250万美金



Air energy controllers for compressed air systems.

To stay competitive in today's economy, a manufacturer must control costs. One of the most significant costs in making a product is compressed air. A total system approach to the production, distribution and use of compressed air offers one of the largest cost saving opportunity.

According to the U.S. Department of Enrgy, more than half of industrial plant air systems are candidates for large energy saving opportunities with relatively low project costs.

TangAir™ Intelligent Flow Controllers

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压缩空气的压力波动和错觉需求浪费导致系统效能低下

Fluctuating compressed air pressure results in poor system performance.

明显的压缩空气压力波动会导致:

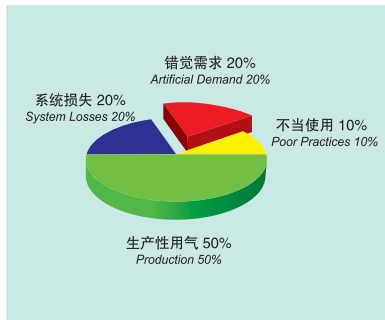
- 生产效率低
- 产品质量差
- 高运行成本
- 用气抱怨
- 浪费能源
- 空压机及气动装备的磨损和疲劳失效

Significant compressed air system pressure changes lead to:

- Decreased productivity
- Poor product quality
- High operational costs
- Compressed air related complaints
- Waste of energy
- Wear and fatigue on compressor and pneumatic equipment / tools

基于实践的统计表明, 一般压缩空气系统都存在普遍的共性问题或机会, 多数工厂的空气系统容量都是足够满足需要的。问题是当用气需求发生变化时, 系统无法及时将需要的流量输送到需要的用气地点, 因而系统的压力产生波动。

Most plant air systems have sufficient compressed air capacity. The problem is distributing this capacity where and when it is needed in the system. Peak demands will exceed capacity. To compensate for these demands, the system pressure is increased, leading to significant energy wastage.



TangAir™ IFC以先进的控制技术, 实现安全而又经济的压缩空气输送, 科学降低能耗!

TangAir™ IFC deliver required flow and pressure at the lowest possible cost!

压缩空气压力波动的主要原因:

- 压缩空气的供应与需求不平衡
- 缺少用气储备

The principle causes of air pressure fluctuation are:

- Rate of air demand exceed the rate of supply
- Lack of useful storage

这将导致压缩空气系统运行更多空压机, 并导致耗能过高。This results in overpowering the air system & using more air compressors than required.

TangAir™ IFC是基于需求端流量输送控制的解决方案, 它通过系统的有用存储和灵敏的流量控制, 实现如下的效果:

- 恒定的压力输送(± 1PSI/0.07bar)
- 降低系统能耗
- 改善生产工艺及产品质量
- 减少用气投诉
- 降低系统泄露
- 减少错觉需求能耗

The TangAir™ IFC provide a product-based solution in the total air system approach by managing the distribution of compressed air to meet the production. This is done by creating upstream storage and controlling its flow into the plant air system.

The result is:

- Stable system pressure(± 1 PSI/0.07bar or better)
- Reduced energy consumption.
- Improved productivity.
- Fewer complaints.
- Less leakage losses.
- Eliminate artificial air demand.



通过精确而灵敏的恒压供气, IFC轻松解决压力波动和浪费, 从而实现节能和改善生产工艺!

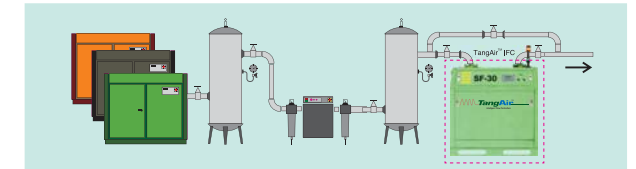
TangAir™ IFC address fluctuating air pressure at your work stations –where it counts.

TangAir™ IFC是专门设计, 安装于压缩总管之后、用气车间之前的恒压控制装置。它的功能是精确、灵敏地控制整个空压站压缩空气的流量输出。

The TangAir™ IFC monitors the air pressure as it is delivered. The IFC provides a stable air supply at the optimal pressure. Pressure fluctuations are eliminated.

空压机与用气车间之间的远程联系被IFC隔离, 由IFC即时监控压缩空气的需求变化。它通过IFC前段的有用存储, 使得压缩空气的流量能够根据需求的变化精确而灵敏地供给, 从而实现用气端流量、压力及能耗的优化。

The TangAir™ IFC takes advantage of the peaks and valleys in the demand cycle by storing compressed air whenever excess capacity is available. The IFC then releases the stored air to satisfy the demand peaks allowing compressed air to be drawn from storage rather than directly from the compressors.



IFC数字化精确而恒定的压力输出(± 1 PSI/0.07bar), 使得压缩空气使用者获得更加可靠的工艺保障, 产品质量得以更多提高。

Compressor performance is optimized because it no longer has to react to the dynamic loading imposed by production.

