

ASSISTED DESIGN REQUEST

FOR NEW GENERATION INSTALLATIONS



Applicant :	Mr./Mrs :
Project Reference :	Activity carried out on the premises :

The undersigned agrees that the technical solutions that will be proposed by SINTRA following this request derive from the experience and know-how of SINTRA and are subjected to intellectual property rights.

SINTRA reserves the INTELLECTUAL PROPERTY of the technical solutions that will be proposed.

The technical solutions that apply MIXIND® technologies are generally more efficient and often cheaper than most of the technical solutions normally used.

However, the components used to implement these solutions necessarily have UNITARY prices which are higher than the market prices, since they integrate the costs of research, patents, Assisted Design, etc.

In addition to the high risk of counterfeiting or abuse of SINTRA's intellectual property, any competitive tendering of these products, having a higher UNITARY price, automatically excludes SINTRA from a fair commercial competition.

The undersigned therefore accepts that the technical solutions proposed following this request MUST NOT BE USED IN FREE COMPETITION.

UNDER NO CIRCUMSTANCES WILL THE APPLICANT BE OBLIGED TO ADOPT THE TECHNICAL SOLUTIONS THAT WILL BE PROPOSED BY SINTRA.

If the undersigned wishes to use a technical solution proposed by SINTRA, he will commit through this form to:

- a) the exclusive use of materials proposed by SINTRA;
- b) obtain all authorizations that may be necessary to ensure the exclusivity required by SINTRA.

In the event that the undersigned will not be able to guarantee these conditions, he formally undertakes not to disclose nor use, even if partially, the technical solutions proposed by SINTRA, which must be considered strictly confidential.

Approval signature(s) and stamp

Place: _____

Date: _____

Applicant's informations:

☐ Address _____
☐ Zip Code - Town _____
☐ Office tel. _____ Mobile phone _____
☐ E-mail _____

☐ Project Designer
☐ Fitter
☐ Final end-user
☐ _____

Estimated period/date

of the technical solution: _____
 of the possible supply: _____

REQUIRED PERFORMANCE LEVEL

- ☐ **1-** Max. available performances, justified price
- ☐ **2-** High performances, moderate price
- ☐ **3-** Best quality/price ratio
- ☐ **4-** Competitive price, standard performances
- ☐ **5-** Most competitive price, minimum performances

Please provide all available useful information: plan and section views of the building, position of any existing duct installation or of the existing project, possible positions of the AHUs, significant encumbrances, positions of any storage shelves, possible passages of the ducts with maximum possible diameter, sensitive areas, photos, etc.

NOTE: (Description of the activity carried out on the premises with indication of any special filtration or comfort needs, presence of pollutants, hygrometry, acoustics, etc.)

Subject: _____ **Plant reference:** _____

Building: _____

Building dimensions :

- | | | | | |
|---|----------------|---------------|---------------|---------------|
| ☐ Indicative dimensions (length/width) | m | _____ / _____ | _____ / _____ | _____ / _____ |
| ☐ Ground surface | m ² | _____ | _____ | _____ |
| ☐ Average Height | m | _____ | _____ | _____ |
| ☐ Volume | m ³ | _____ | _____ | _____ |

Winter thermal load (WITHOUT AHU EXTERNAL AIR):

- | | | | | |
|---|-------------------------|-------|-------|-------|
| ☐ Static dispersions of the building | *KW | _____ | _____ | _____ |
| ☐ Thermal loads from NATURAL INFILTRATIONS of external air | *KW | _____ | _____ | _____ |
| ☐ Forced air extractions (mechanic extractions) | *m³/h | _____ | _____ | _____ |
| ☐ External air max. quantity introduced by the AHU | *m³/h | _____ | _____ | _____ |

Summer thermal load (WITHOUT AHU EXTERNAL AIR):

- | | | | | |
|---|-------------------|-------|-------|-------|
| ☐ SENSITIVE external inputs (walls, windows, etc.) | **KW | _____ | _____ | _____ |
| ☐ SENSITIVE internal inputs (people, lights, engines, etc.) | **KW | _____ | _____ | _____ |
| ☐ LATENT internal inputs (people, work process, other, etc.) | KW | _____ | _____ | _____ |
| ☐ Forced mechanic extractions (work process, chimneys, etc.) | m ³ /h | _____ | _____ | _____ |
| ☐ External air quantity introduced by AHU | m ³ /h | _____ | _____ | _____ |

Air treatment unit (AHU) :

- | | | | | |
|--|-------------------|-------|-------|-------|
| ☐ Input air flow rate | m ³ /h | _____ | _____ | _____ |
| ☐ External air flow rate | m ³ /h | _____ | _____ | _____ |
| ☐ Max. static pressure available at the start of the PULSERS® | Pa | _____ | _____ | _____ |

WINTER operation :

- | | | | | |
|---|-----|-------|-------|-------|
| ☐ Ambient temperature | °C | _____ | _____ | _____ |
| ☐ Max. input air temperature | °C | _____ | _____ | _____ |
| ☐ Min. input air temperature | °C | _____ | _____ | _____ |
| ☐ Ambient relative humidity | %HR | _____ | _____ | _____ |
| ☐ Min. external temperature of the project | °C | _____ | _____ | _____ |

SUMMER operation :

- | | | | | |
|---|-----|-------|-------|-------|
| ☐ Environment temperature | °C | _____ | _____ | _____ |
| ☐ Min. input air temperature | °C | _____ | _____ | _____ |
| ☐ Project max. external temperature | °C | _____ | _____ | _____ |
| ☐ Project external relative humidity | %HR | _____ | _____ | _____ |
| ☐ Environment relative humidity | %HR | _____ | _____ | _____ |

Occupation of the premises :

- | | | |
|--|-------|------------|
| ☐ Hours per day of occupation of the premises | hours | _____ / 24 |
| ☐ Days per week of occupation of the premises | days | _____ / 7 |

Air treatment :

- | | |
|---|------------------|
| ☐ Air treatment unit (AHU), powered by : | |
| ☐ Hot water coil (input/output temperature) | °C _____ / _____ |
| ☐ Iced water coil (input/output temperature) | °C _____ / _____ |
| ☐ Direct expansion coil | |
| ☐ Direct expansion roof-top | |
| ☐ Hot air generator with burner _____ | |
| ☐ _____ | |

(*) important information to provide

(**) Please avoid to indicate the cumulative TOTAL power of the internal and external intakes, and of the power for external air t

LIST OF THE PATENTS



NAME	DEPARTURE OF RIGHTS	DEPOSIT		GRANT	
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VARIPLENUM®	02-2009	MI2009A000604	14-04-2009	1397501	16-01-2013
SPIROPACK	07-2009	MI2009A001174	02-07-2009	1394571	05-07-2012
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HYGRO-COOLING®	08-2010	MI2010A001539	12-08-2010	1401522	26-07-2013
VARIPULSE®	10-2010	MI2011U000319	11-10-2011	276261	02-08-2013
		EP12188085.0	11-10-2012	EP2597392	12-12-2018
TWIN-VARIBOOST®	08-2011	MI2011A001538	12-08-2011	1408111	06-06-2014
		EP12179782.3	09-08-2012	EP2557368	27-09-2017
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TWIN-LOCK	07-2014	MI2014A001352	24-07-2014	1425497	03-11-2016
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	07-1981	CH651914	30-07-1982		
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