

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 MIX-IND® 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 information :

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 :

- | | | | | |
|--|----------------|---------------|---------------|---------------|
| <input type="checkbox"/> Indicative dimensions(length/width) | m | _____ / _____ | _____ / _____ | _____ / _____ |
| <input type="checkbox"/> Ground surface | m ² | _____ | _____ | _____ |
| <input type="checkbox"/> Average height | m | _____ | _____ | _____ |
| <input type="checkbox"/> Volume | m ³ | _____ | _____ | _____ |

Winter thermal load (WITHOUT AHU EXTERNAL AIR) :

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

Summer thermal load (WITHOUT AHU EXTERNAL AIR) :

- | | | | | |
|---|------------------------|-------|-------|-------|
| <input type="checkbox"/> SENSITIVE external inputs (walls, windows, etc.) | **KW | _____ | _____ | _____ |
| <input type="checkbox"/> SENSITIVE internal inputs (people, lights, engines, etc.) | **KW | _____ | _____ | _____ |
| <input type="checkbox"/> LATENT internal inputs (people, work process, other, etc.) | KW | _____ | _____ | _____ |
| <input type="checkbox"/> Forced mechanic extractions (work process, chimneys, etc.) | m³/h | _____ | _____ | _____ |
| <input type="checkbox"/> External air quantity introduced by AHU | m³/h | _____ | _____ | _____ |

Air treatment unit (AHU) :

- | | | | | |
|--|-------------------|-------|-------|-------|
| <input type="checkbox"/> Input air flow rate | m ³ /h | _____ | _____ | _____ |
| <input type="checkbox"/> External air flow rate | m ³ /h | _____ | _____ | _____ |
| <input type="checkbox"/> Max. static pressure available at the start of the PULSERS® | Pa | _____ | _____ | _____ |

WINTER operation :

- | | | |
|---|-----|-------|
| <input type="checkbox"/> Ambient temperature | °C | _____ |
| <input type="checkbox"/> Max. input air temperature | °C | _____ |
| <input type="checkbox"/> Min. input air temperature | °C | _____ |
| <input type="checkbox"/> Ambient relative humidity | %HR | _____ |
| <input type="checkbox"/> Min. external temperature of the project | °C | _____ |

SUMMER operation :

- | | | |
|---|-----|-------|
| <input type="checkbox"/> Environment temperature | °C | _____ |
| <input type="checkbox"/> Min. input air temperature | °C | _____ |
| <input type="checkbox"/> Project max. external temperature | °C | _____ |
| <input type="checkbox"/> Project external relative humidity | %HR | _____ |
| <input type="checkbox"/> Environment relative humidity | %HR | _____ |

Occupation of the premises :

- | | | |
|--|-------|------------|
| <input type="checkbox"/> Hours per day of occupation of the premises | hours | _____ / 24 |
| <input type="checkbox"/> Days per week of occupation of the premises | days | _____ / 7 |

Air treatment

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

(*) 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

LIST OF THE PATENTS



TRADENAME	DEPARTURE OF RIGHTS	DEPOSIT		GRANT	
		NUMBER	DATE	NUMBER	DATE
VARITRAP®	02-2009	MI2009A000275	26-02-2009	1393105	11-04-2012
		EP10154832.9	26-02-2010	EP2224183	06-05-2015
VARIPLENUM®	02-2009	MI2009A000604	14-04-2009	1397501	16-01-2013
SPIROPACK	07-2009	MI2009A001174	02-07-2009	1394571	05-07-2012
		MI2011A001380	02-07-2009	1401168	02-07-2009
		MI2011A001382	02-07-2009	1401169	02-07-2009
		EP10743224.7	02-07-2010	EP2449316	14-05-2014
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
		EP17193279.1	09-08-2012	EP3293462	06-01-2021
TWIN-LOCK	07-2014	MI2014A001352	24-07-2014	1425497	03-11-2016
		EP15178143.2	23-07-2015	EP2977663	27-01-2016
VARIWIND	09-2014	MI2014A001535	03-09-2014	1425751	09-11-2016
	05-2021	EP15183590.7	02-09-2015	EP2995876	12-04-2017
VARISMOKE	02-2015	1020			
TWIN-FLOW	09-2015	MI2015A000181	09-02-2015	1428404	05-05-2017
BOX-IN-BOX	12-2016	202015000051120	14-09-2015	102015000051120	27-10-2017
		202016000127166	15-12-2016	202016000127166	13-03-2019
		FR1762278	15-12-2017		(pending)
RADYAL	12-2016	US16/246,214	11-01-2019		(pending)
		102016000127985	19-12-2016	102016000127985	06-05-2019
OLD PATENTS		EP17208679.5	19-12-2017	EP3343119	28-04-2021
		IT23283/81A	31-07-1981		
		FR2510728A1	30-07-1982	FR2510728B1	29-07-1988
		BE893893A	20-07-1982		
		CH651914	30-07-1982		
		DE3228401A1	29-07-1982		
		DK341782A	30-07-1982		
		ES8307356A1	30-07-1982		
		GB2105458A	23-07-1982	GB2105458B	02-10-1985
		JPS5852926A	30-07-1982		
		NL8203061A	30-07-1982		
		SE8204508L	29-07-1982		
		CA1178841	30-07-1982		
		FR19910009593	29-07-1991	FR2679983B1	17-12-1993
		IT24442/83A	30-12-1983		
		IT24354/83A	23-12-1983		
		IT24441/83A	30-12-1983		
		101996900521750	30-05-1996	IT1293182	16-02-1999
		EP97830388.1	24-07-1997	EP899519	17-05-2000

GENERAL INFORMATION:

- The above mentioned patents are owned by the inventor Marco Zambolin and granted in exclusive licence to SINTRA s.r.l.
- Invention patents have a duration of 20 years, whereas utility models have a duration of 10 years
- In the event of counterfeiting, international laws would necessarily involve the manufacturer, the fitter, the project designer and the final customer
- Further information on the patents is available on our website: www.mix-ind.it and on the website www.inpi.fr